

PROGRAMME STRUCTURE & SYLLABUS For

BACHELOR OF BUSINESS ADMINISTRATION

(BUSINESS ANALYTICS)

3 Years Programme

Academic Year - 2021-22



VISION OF THE UNIVERSITY

To be an internationally recognized university through excellence in <u>inter-disciplinary</u> <u>education</u>, <u>research and innovation</u>, preparing <u>socially responsible</u> <u>well-grounded</u> <u>individuals</u> contributing to nation building.

MISSION STATEMENTS OF THE UNIVERSITY

M.S 01: Improve employability through futuristic curriculum and progressive pedagogy with cutting-edge technology

M.S 02: Foster outcomes based education system for continuous improvement in education, research and all allied activities

M.S 03: Instill the notion of lifelong learning through culture of research and innovation

M.S 04: Collaborate with industries, research centres and professional bodies to stay relevant and up-to-date

M.S 05: Inculcate ethical principles and develop understanding of environmental and social realities

CHANCELLOR / VICE CHANCELLOR



VISION OF THE SCHOOL

To be a new-age school maintaining international standards of industry-relevant interdisciplinary education and research in the field of business, commerce and economics, developing professionals adept at leveraging technology, and conscious of society and environment.

MISSION STATEMENTS OF THE SCHOOL

M.S 01: Focus on outcome based curriculum enabling intellectual, personal and professional growth through life-long learning.

M.S 02: Integrate theory with practice to create solutions, embracing sustainability and diversity

M.S 03: Inculcate trans-disciplinary culture through teaching and research in emerging areas.

M.S 04: Encourage students to inculcate entrepreneurial spirit, ethical and societal values, and contribute to nation-building.

Dala

DEAN / SCHOOL CONCERNED



VISION OF THE DEPARTMENT

To be an internationally recognized centre for management education through excellence in pedagogy, research and innovation, preparing socially responsible and industry-ready management professionals who will emerge as the preferred choice for organisations.

MISSION STATEMENTS OF THE DEPARTMENT

M.S 01: Improve employability through progressive, outcome based pedagogy and regular interaction with industry for lifelong learning.

M.S 02: Integrate theoretical knowledge with real-life practices through industry interface.

M.S 03: Holistic development through trans-disciplinary teaching and research in emerging areas leveraging technology.

M.S 04: Encourage students to inculcate entrepreneurial spirit, ethical, societal and professional values, and contribute to nation-building.

PleBose

2 Jala

HOD

DEAN / SCHOOL CONCERNED



Name of the Programme: Bachelor of Business Administration (Hons)

PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

PEO 01: Imparting knowledge of the fundamentals of Management theory and its applications in problem solving.

PEO 02: Developing expertise in the areas of leadership, interpersonal skills, entrepreneurship, finance, and marketing.

PEO 03: Enhancing professional competency in meeting the challenges of a globalized world of business.

PEO 04: Developing ethical, social and environmental consciousness.

PEO 05: Inculcating fundamental concepts and skills of research in various fields of business.

PleBose

2 Jala

DEAN / SCHOOL CONCERNED

HOD



Name of the Programme: Bachelor of Business Administration (Hons)

GRADUATE ATTRIBUTE / PROGRAMME OUTCOME (PO)

GA 01 / PO 01: Management Knowledge- Understanding of basic knowledge in the different fields of business & management in terms of concepts and principles.

GA 02 / PO 02: Problem Solution: Identify, formulate and analyze business problems utilizing knowledge of multiple disciplines including economics, statistics, commerce, law and technology and solve such problems using appropriate methodology culled from various fields.

GA 03 / PO 03: Leadership and Organization Skills- Develop strategic, organizational, and leadership skills for new organizations paradigm.

GA 04 / PO 04: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the business practices.

GA 05 / PO 05: Environment and Sustainability- Understand the impact of the professionals in societal contexts, and demonstrate the knowledge of, and need for sustainable development

GA 06 / PO 06: Life-long Learning- Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of business world.

GA 07 / PO 07: Creativity and Innovation- Develop inquisitive and innovative minds trained in the concepts of research and innovative practices.

Ple Bose

Jala.

DEAN / SCHOOL CONCERNED

HOD



Name of the Programme: Bachelor of Business Administration (Hons)

PROGRAMME SPECIFIC OUTCOME (PSO)

PSO 01: Prepare basic knowledge, skills, tools and techniques to enable them to take up

higher studies and research.

PSO 02: Development of entrepreneurial skills and spirit.

PSO 03: Develop competencies to be socially responsible business professionals.

PleBose

Nola.

HOD

DEAN / SCHOOL CONCERNED

Programme Structure for BBA (Business Analytics)

SEMESTER	DURATION	No. of Credits	Examination Months			
I	July - Dec.	24	December			
II	Jan. – June	29	May			
III	July - Dec.	29	December			
IV	Jan. – June	26	May			
V	July - Dec.	22	December			
VI	Jan. – June	18				
Participation in Co-curric	ll Skills Development (PPSD); ular & Extracurricular activities active involvement in Gymkhana					
]	FOTAL	148				

(Industry Specific, Job Oriented, Skill based Programme)

		SEMESTER-I						
Type of Course	Course Code	ourse Code Title of the Course			Contact Hours			
			L	Т				
AECC	ENG11051	Business English - I	2	0	0	2		
Core	MGT11002	Business Environment	2	0	0	2		
Core	MGT11001	Principles of Management	3	4				
Core	MTH11514	Business Mathematics 3 1 0				4		
	ECO11003	Micro Economics	3	1	0	4		
Core								
Core	FAC11003	Principles of Accounting	3	1	0	4		
SEC	DGS11001	Design Thinking	2	0	0	2		
Core	BAN11003	Concepts of Data Structure and 2 0 0				2		
		Database Management						
				Total		24		

	SEMESTER-II									
Sl. No.	Course Code	Title of the Course	Contact Hours			Credit				
			L T P							
AECC	ENG11052	Business English - II	2	0	0	2				
AECC	EVS11109	Environment Studies	2	0	0	2				
Core	SDS11503	Business Statistics	3	1	0	4				
Core	ECO11501	Macro Economics	3	1	0	4				
Core	FAC11005	Financial Accounting	3	1	0	4				
Core	OBH11002	Behavioral Science310				4				
SEC	EIC11001	Venture Ideation	2	0	0	2				

Core	LWJ11014	Business Law	3	1	0	4
Core	BAN13002	SQL	1	0	2	2
				Total		29

		SEMESTER-III				
Sl. No.	Course Code	Title of the Course	Conta Hours			Credit
			L	Т	Р	
AECC	SOC14100	Community Services	0	0	2	1
SEC	IDP14001	Inter Disciplinary Project	1	1	2	3
Core	MKT11015	Marketing Management	3	1	0	4
Core	FAC11007	Financial Management	3	1	0	4
Core	OBH11012	Human Resource Management	3	1	0	4
Core	OLS11001	Supply Chain Management	3	1	0	4
GE	OLS11002	Production & Operations Management	3	1	0	4
DSE	BAN11004	Data Preparation for Analytics	2	0	0	2
DSE	BAN11005	Interactive Querying and Basic Reporting	1	0	2	2
DSE	BAN11002	Programming for Analytics-1	0	0	4	2
			r	Fotal		29

		SEMESTER-IV					
Sl. No.	Course Code	Conta Hours	Credit				
			L	Т	Р	-	
GE	PSG11021	Human Values and Professional Ethics	2	0	0	2	
Core	FAC11008	Cost & Management Accounting	3	1	0	4	
GE	IST11001	Management Information System &ERP	3	3 1 0			
Core	MGT11005	Introduction to Research Methodology	3	4			
GE	EIC11002	Entrepreneurship Development	3	1	0	4	
SEC	BAN11002	Introduction to data analytics	0	0	4	2	
DSE	BAN11006	Applied Statistical Modelling	1	0	2	2	
DSE	BAN11007	Basics of R-Programming	1	1 0 2			
SEC	BAN11008	Programming for Analytics-2	0 0 4			2	
				Total		26	

		SEMESTER-V				
Sl. No.	Course Code	Title of the Course	Contact Hours			Credit
			L	Т	Р	
Core	MGT11025	International Business	3	1	0	4
GE	MGT11003	Business Ethics &Corporate Governance	3	1	0	4
DSE	BAN11009	Python Programming	1	0	2	2
DSE	BAN11010	Introduction to Optimization	2	0	0	2
DSE	BAN11011	Big Data Visualization	1	0	2	2
DSE	BAN11012	Visual Predictive Analytics	1	0	2	2
DSE	BAN11013	Basics of Business Forecasting	2	0	0	2
DSE	BAN11014	Cloud Computing	2	0	0	2
Core	MGT14001	Summer Internship Training/Project	0	0	4	2
			,	Tota	l	22

	SEMESTER-VI									
Sl. No.	Course Code	Title of the Course	Con	Credit						
			L	Τ	P					
Core	MGT11008	Business Strategy & Policy	3	1	0	4				
DSE	BAN11015	Hadoop	2	0	4	2				
SEC	MKT11007	E-Commerce	3 1 0							
Core	MGT14002	Dissertation/ Live Project	0	0	8	4				
DSE	BAN11016	Marketing analytics	1	0	2	2				
DSE	BAN11017	Financial Analytics	1	0	2	2				
DSE	BAN11018	HR Analytics	1 0 2		2					
				18						

ENG11051	Business English I	L	Т	Р	С
Version 1.0		2	0	0	2
Pre-requisites/Exposure	Basic Knowledge of English Language				
Co-requisites	-				

Course Objectives

- 1. To help the second language learners develop the ability to understand spoken language.
- 2. To enable students communicate with clarity and precision at workplace.
- 3. To give the students a perspective to appreciate life in its variables by exposing them to comprehension texts; and also to enrich their word power.
- 4. To enable students acquire structure and written expression required for their profession.

Course Outcomes

On completion of this course, the students will be able to

- CO1. Define communication processes and to know the practical implications and its challenges at the work place.
- CO2. Understand the practical uses of English grammar and to use grammar correctly and unambiguously
- CO3. Develop fluency in speaking English in order to carry out effective professional communication.
- CO4. Identify difficult sounds, words and phrases to support listening comprehension and be familiar with the various strategies of reading and develop the ability to read texts with fluency, understanding and competence
- CO5. Make use of different formats of business communication like reports, letters, CVs and other technical writings

Course Description

English is an integral part of life. Communication is a process of exchanging ideas, messages, information etc. through verbal or nonverbal communication. In this course, the focus will be on improving LSRW skills, i.e. listening, speaking, reading and writing. Students will learn how to communicate effectively though prescribed syllabus as well as through Pearson Global English solutions. Classroom activities will be designed to encourage students to play an active role in the construction of their own knowledge and in the design of their own learning strategies. We will combine traditional lectures with other active teaching methodologies, such as group discussions, cooperative group solving problems, analysis of video scenes and debates. Class participation is a fundamental aspect of this course. Students will be encouraged to actively take part in all group activities and to give an oral group presentation. Students will be expected to interact with media resources, such as, web sites, videos, DVDs, and newspapers etc.

Unit I: Communication Skills

Communication Skills- Process and importance of communication, Communication cycle; Objectives and Principles of communication; Barriers to communication; Interpersonal Communication Skills at Work and Study

Unit II: Grammar and Writing Skills

Grammar: Voice Change, Prepositions, Conjunctions, Articles, Direct and Indirect Speech, Correction of Sentences

Writing skills: Business letters (types and format), CV and Application Letters, Composition: Essays and Précis, Business Reports

Unit III: Speaking Skills

[10 lecture hours]

Speaking (basics of pronunciation), Group Discussion, Presentation skills, Modulation and Tone

How to face an interview: frequently asked questions, body language and promptness

Text Books

- T1. T1 Mishra. B, Sharma. S (2011) Communication Skills for Engineers and Scientists. PHI Learning Pvt. Ltd. ISBN: 8120337190.
- T2. Chaturvedi P. D, Chaturvedi M. (2011) Business Communication: Concepts, Cases and Applications. Pearson Education India. ISBN: 8131718727.
- T3. Greenbaum. Sidney. <u>College Grammar of English</u>. Longman Publishers. ISBN: 9780582285972.

Reference Books

- R1.Pal, Rajendra and Korlahalli, J.S. (2011) Essentials of Business Communication. Sultan Chand & Sons. ISBN: 9788180547294.
- R2. Kaul, Asha. (2014) Effective Business Communication.PHI Learning Pvt. Ltd. ISBN: 9788120338487.
- R3. Murphy, R. (2007) Essential English Grammar, CUP. ISBN: 8175960299.
- R4.C. Muralikrishna and S. Mishra (2011) Communication Skills for Engineers, Pearson education. ISBN: 9788131733844.
- R5. Hamp-Lyons and Heasely, B. Study Writing; A Course in Written English. For Academic and Professional Purposes, Cambridge Univ. Press, 2006.
- 1. Wren and Martin. High School Grammar And Composition. S. Chand, 1995.

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination Examination Scheme:

Components	Mid Term	Class Assessment	End Term
Weightage (%)	20	30	50

[10 lecture hours]

[10 lecture hours]

	Mapping between COs and Pos	
	Mapped Program Outcomes	
CO1	Define communication processes and to know the practical implications and its challenges at the work place.	PO2 PO3
CO2	Understand the practical uses of English grammar and to use grammar correctly and unambiguously	PO6 PO7
CO3	Develop fluency in speaking English in order to carry out effective professional communication.	PO3 PO6
CO4	Identify difficult sounds, words and phrases to support listening comprehension and be familiar with the various strategies of reading and develop the ability to read texts with fluency, understanding and competence	PO6 PO3 PO7
CO5	Make use of different formats of business communication like reports, letters, CVs and other technical writings	PO7 PO5

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

		Management Knowledge	Problem Solution	Leadership and Organization Skills	Ethics	Environment and Sustainability	Life-long Learning	Creativity and Innovation	Prepare basic knowledge, skills, tools and techniques to enable them to take	Development of entrepreneurial skills and spirit.	Develop competencies to be socially responsible business professionals.
Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
ENG11051	Business English I	-	-	3	-	-	3	3	-	-	-

1=weakly mapped

2= moderately mapped

3=strongly mapped

Model Question Paper

Nam	ie:								
Enro	olment No:		ADAMAS UNIVERSITY PURSUE EXCELLENCE						
	Course: ENG11051 – Business English								
-	Program: BBA Time: 03 Hrs.								
Sem	ester: Even 2020-21		Max	Marks:	50				
Atte Sect	Instructions: Attempt any Five Questions from Section A (each carrying 2 marks); any Four Questions from Section B (each carrying 5 marks) and any Two Questions from Section C (each carrying 10 marks).								
	Se	ection A (Attempt any	Five)		[
1.	What is resume? (Re)				2	CO5			
2.	Define a report. (Re)				2	CO5			
3.	What is fluency in speaking?	Discuss with an examp	ple. (Un)		2	CO3			
4.	Why is pause and pace impor	tant for oral communic	cation? (Un)		2	CO3			
5.	What is scanning? (Re)		2	CO4					
6.	Fill the gaps with suitable arts a. She showed me on b. Lwaited for bour		2	CO2					
7.	b. I waited for hour and then went home. Fill the gaps with appropriate prepositions (Ap) a. I gave her a chair to sit (on/in). b. She poured the tea (in/ into) the cup.					CO2			
	SECTIO	N B (Attempt any Two	o Questions)						
8.	What are the factors that cont	ribute to good speakin	g? (Un)		5	CO3			
9.	Mention few ways to improve	e reading. (Un)			5	CO4			
10.	Write a small paragraph on S	cience in daily life (with	thin 250 words).(Ap)	5	CO2			
11.	What are the factors to keep in mind during a group discussion? (Un)					CO1 CO2 CO3			
	SEC	CTION C (Attempt Ar	ny Two)		-				
12.	What is reading? What are the Discuss with examples. (Un)		-	,	10	CO4			
13.	What is speaking? What are the major barriers to good speaking? Discuss with examples.(Un)					CO3			
14.	Write an application on behal university and request to esta	blish a reading room fo	or the students.	•	10	CO5			
15.	Write a dialogue on any one of Location: Boss's room in an of Situation: Deciding on where		10	CO5					

MGT11002	BUSINESS ENVIRONMENT	L	Т	Р	C
Version 1.2	Contact Hours – 30	2	0	0	2
Pre-requisites/Exposure					
Co-requisites					
Academic year	2020-21				

Course objectives:

- 1. To enable the students to acquaint with the dynamics of business scenario in India
- 2. To understand the guidelines flowed by different sectors as per industrial policy.
- 3. To expose with the different industrial policies and the functions of WTO and GATT.

Course Outcomes

On completion of this course, the students will be able to:

CO1: - Discuss the various components of business environment under different market conditions.

CO2:- Identify various issues of environmental forces and its linkage with industry specific problems.

CO3:- Recognize and develop various industrial policies and its impact on business performance in Indian business scenario

CO4:- Illustrate environmental pros and cons with the help of different firms in India.

Course description:

Understand the environment is a primary task of all business leaders because the initial success of any business depends on its environmental background. This course will help the students to familiarize with different forces of environment. Apart from that the course will help the students to get a better understand of different sectors and their formation. This course will explain the new industrial policy guideline and how WHO and GATT functions. During the course students will be exposed the environmental policy of different corporate houses and also the thought of industry leader on industrial policy. The course will be asses by debates and discussion with various issues faced by current industries.

Course Contents:

Unit – I: 9 Hrs

Indian Business Environment: Concept, components and importance. Environmental analysis, Economic Environment, Demographic and Political environment, Technology environment, Capitalist Economy, Socialist Economy, Mixed Economy

Unit – II: 5 Hrs

Business and culture; Social responsibility of business; Consumer rights; Consumerism of business; Industrial sickness, CSR activities of Tata, HUL etc.

Unit – III: 8 Hrs

Industrial policies & regulations: Public, Private, Joint & Cooperative sectors; Industrial licensing, Privatization; Liberalization, MSME Sector, Export-import policy; Regulation of foreign investment;

Unit- IV 8 Hrs

Industrial Policy: New Industrial Policy and its Effect in India, WTO and Trading Blocks: Role and functions of WTO – Differences between WTO and GATT, Basic understanding of world bank, IMF.

Text Book(s):-

- 1. Business Environment: Text & Cases- Francis Cherunilam, HPH, 28th Ed.
- 2. Business Environment- K Aswathappa- HPH

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination Examination Scheme:

Components	Mid Term	Attendance	Class Assessment	End Term
Weightage (%)	20	00	30	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

	Mapping between COs and Pos							
	Course Outcomes (COs)	Mapped Program Outcomes						
CO1	Discuss the various components of business environment under different market conditions.	PO1, PO 2, PSO1						
CO2	Identify various issues of environmental forces and its linkage with industry specific problems.	PO1,PO2, PO3, PO 6, PSO1						
CO3	Recognize and develop various industrial policies and its impact on business performance in Indian business scenario.	PO3, PO4, PO 6, PSO1						
CO4	Illustrate environmental pros and cons with the help of different firms in India.	PO1,PO3, PO6, PO7						

		Management Knowledge	Problem Solution	Leadership and Organization Skills	Ethics	Environment and Sustainability	: Life-long Learning	Creativity and Innovation	Prepare basic knowledge, skills, tools	Development of entrepreneurial skills	
Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1	PSO 2	PSO 3
MGT11002	Business Environment	3	-	3	-		3	-	3	-	

1= weakly mapped

2= moderately mapped

3=strongly mapped

	me: rolment No:	S				
	Course: MGT11002–Business Environme	nt				
	Program: BBASemester: ITime: 03 Hrs.Max. Marks: 50					
Att Sec	structions: Tempt All Questions from Section A (Each Carrying 2 Marks); any Section B (Each Carrying 5 Marks). Any Two Questions from Sect Marks).					
	SECTION A (Answer All Questions)					
1.	Define concept of business environment	Remembering	CO1			
2	Compare and contrast between internal and external environment	Understanding	CO1			
3	Define monetary and fiscal policy?	Remembering	CO2			
4	What are different role played by WTO.	Remembering	CO1			
5	What do you mean technological leadership?	Remembering	CO1			

	SECTION B (Attempt any Three Questions)		
1.	Explain concepts of technological environment and its impact on present business scenario.	Understanding	CO2
2	How business performance depends on changes in social cultural dimension of the consumers?	Remembering	CO3, CO2
3.	Illustrate environmental scenario with the help of an Indian industry.	Understanding	CO 3
4.	Analyse the role of monetary policies in economic decision of the country.	Analysing	CO3
	SECTION C (Attempt any Two Questions)		
1.	Describe the role of state and central government in development of MSME in India.	Analysing	CO4
2.	Explain the root cause of industrial sickness and way to prevent it (with suitable example).	Applying	CO4
3.	Design a plan for sustainability of industry considering major environmental force.	Creating	CO4

MGT11001	Principles of Management	L	Т	Р	C	
Version 1.1	Contact Hours - 60	3	1	0	4	
Pre-requisites/Exposure	Understanding concepts of Organisations					
Co-requisites						
Academic year	2020-21					

Course Objectives:

- 1. To enable the students to know evolution of Management,
- 2. To study the principles and functions of management.
- 3. To learn the application of the principles in an organization.
- 4. To help the students to develop cognizance of the importance of management principles.
- 5. To aware the student's contemporary issues and modern approaches of management.

Course Outcomes

On completion of this course, the students will be able to:

CO1: Have a good understanding of the subject of management, the important theories, its scope and impact.

CO2: Develop an understanding of the basic processes of planning, organising and directing

CO3: Understand the theories of motivation and its applications and the basic principles of management control and coordination

CO4: Exposure to the concepts of staffing including Job analysis, recruitment, selection. Brief idea about recent concepts such as Knowledge management, change management, technology management etc.

CO5: Discuss Contemporary Issues such as Social Responsibility & Ethics, Globalization, Culture etc. and their impact on management

Course Description:

Principles and practices of management is an introductory course on management process from managers' perspective. The course seeks to help students acquire the requisite knowledge, skills and abilities needed to successfully manage the organization. The course examines the logic and working of organizations and outlines the major functions of management. The main objective of this course is to help the students to get aware towards varied management principles and practices. This course covers the explanations about the fundamentals of management discipline in organizational context. It details the different functions of management such as planning, organizing, staffing, directing, and controlling. The course also emphasizes on identification of critical issues and framing of strategies and scenarios required to execute management functions.

Course Content:

[12 hours]

[12 hours]

Evolution & Growth of Management Thought

Concepts, Theory and Practice: The Evolution of Management Thought – Scientific Management School, Behavioural School, Quantitative School, Integration School, Contemporary School, McKinsey's 7-S approach

Unit II:

Planning, Organizing & Direction

Planning- Nature, Purpose, Types & Process of Planning; Concept of MBO, MBE & MBWA.

Decision Making- Approaches, Decision Making under certainty, uncertainty & risk; Group Decision Making

Organizing- Line/ Staff Authority, Decentralization & Delegation, Effective Organizing, Direction-Supervision, Span of Supervision, Graicuna's Theory of Span of Management.

Unit III:

Motivation, Control & Coordination

Motivation- elements, importance, methods, theories, Controlling- Control Process, Importance, Critical Control Standards & Techniques, Maintenance Vs Crisis Management, Overall Control Process, Coordination- Definition, Characteristics, Objectives, Techniques

Unit IV:

Staffing

Job analysis, recruitment, selection, post selection steps, job changes: transfers/promotions, performance appraisal, training, management development, job rotation, rewards and recognition

Modern approaches to Management

Concept of Knowledge management, change management, technology management, supply chain management, process and project quality standards – six sigma, CMM, CMMI, PCMM, Impact of IT quality management systems, learning organizations

Unit V:

Contemporary Issues

Social Responsibility & Ethics, Globalization & Management, Inventing & Reinventing Organizations, Culture & Multiculturalism

Text Books

TH1. Koontz, Essentials of Management, Tata McGraw Hill

TH2. L. M. Prasad: Principles of Management, Sultan Chand & Sons, 2016

TH3.. Robbins, S. (2017). Management, (13th ed.), Pearson Education, New Delhi

Project:

The class will be divided into Groups consist of 5 members. Each Group will select a company of their choice respect to study the Management Practices of a Particular Company. The Project will be brief in the session 3. The objectives of the project is to acquaint the students Management Practices in respect to a specific company. Students are required to submit the report just after Mid semester examination. Each group will present before all student as a result all students should have idea of Management Practices Mix of around 7 to 9 companies.

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination

Unit I:

[16 hours]

[8 hours]

[12 hours]

Examination Scheme:

Components	Mid Term	Class Assessment	End Term		
Weightage (%)	20	30	50		

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

	Mapping between COs and Pos							
	Course Outcomes (COs)	Mapped Program Outcomes						
CO1	Have a good understanding of the subject of management, the important theories, its scope and impact.	PO1, PO 2						
CO2	Develop an understanding of the basic processes of planning, organising and directing	PO1,PO2, PO3, PO 6, PSO1						
CO3	Understand the theories of motivation and its applications and the basic principles of management control and coordination	PO1, PO3, PO 6, PSO1						
CO4	Exposure to the concepts of staffing including Job analysis, recruitment, selection. Brief idea about recent concepts such as Knowledge management, change management, technology management etc.	PO3, PO6, PO7 PSO3						
CO5	Discuss Contemporary Issues such as Social Responsibility & Ethics, Globalization, Culture etc. and their impact on management	PO5, PO6, PSO1,POS3						

Management Knowledge
Problem Solution
Leadership and Organization Skills
Ethics
Environment and Sustainability
: Life-long Learning
Creativity and Innovation
Prepare basic knowledge, skills, tools
and techniques to enable them to take up Development of entrepreneurial skills and spirit.

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1	PSO 2
MGT11001	Principles of Management	3	-	3	-	-	3	-	3	-

1= weakly mapped

2= moderately mapped

3=strongly mapped

Name:

Enrolment No:



Course: MGT11001 – Principles of Management

Program: BBA Time: 03 Hrs. Semester: I Max. Marks: 50

Instructions:

Attempt All Questions from Section A (Each Carrying 2 Marks); any Four Questions from Section B (Each Carrying 5 Marks). Any Two Questions from Section C (Each Carrying 10 Marks).

	SECTION A (Answer All Questions)		
1.	What are different functions of Management?	Remembering	CO1
2	Who developed the school of scientific management thought? Name two characteristics of scientific management thought?	Understanding	CO1
3	What are natures of motivation?	Remembering	CO2
4	Which theory of motivation is known as corner stone of Motivation theories?	Remembering	C01
5	What is different need and important of departmentation?	Remembering	CO1
	SECTION B		•
1.	Distinguish between a leader and Manager.		
	6. How communication processes work?	Understanding	CO2
2	3. What are different methods of departmentation?	Remembering	CO3, CO2
3.	What are staffing process?	Understanding	CO 3
4.	Analyse how controlling contribute for archiving objectives of any organizations?	Analysing	CO3
	SECTION C (Attempt any Two Questions)		

1.	Based on planning premises developed by ITC, identify the	Applying	CO4
	opportunities, threats, strength and weakness available to the		
	company		
2.	Compare and contrast the Maslow and Herzberg theories of motivation in present organisation of your choice. On what grounds has the Herzberg theory been criticized?	Applying	CO4
3.	What are different theories of leadership? Discuss each theories and which theories are more appropriate to modern management context with suitable examples?	Creating	CO4

MTH11514	BUSINESS MATHEMATICS	L	Т	Р	С
Version 1.1	Contact Hours - 60		1	0	4
Pre-requisites/Exposure	School level Mathematics				L
Co-requisites					
Academic year	2020-21				

Course objectives:

- 1. To learn fundamentals, theory, and methods of basic mathematics to be used in simple Business/Economics and real-life problems.
- 2. To skill students to compute the solution of simple mathematical problems in the set theory, linear and nonlinear equations, matrix methods, differentiation and integration.
- 3. To help students to understand the use of various mathematical tools for solving simple Business/Economics and marketing related problems.

Course Outcomes:

On completion of this course, the students will be able to:

CO1: **Define** various terms related to the theory of sets and its properties with Venn diagrams representations. (R)

CO2: **Illustrate** the solution of linear, nonlinear equations and the problems related to the supply and demand analysis. (U)

CO3: **Find** the inverse of a matrix, determinant, and the solution of a system of linear equations arises from simple business/economics applications. (R)

CO4: Define the percentages, index numbers, interests, and investment appraisal. (R)

CO5: Summarize the theory and methods to determine the derivatives of a function of one and several variables for the extreme value of a function. (U)

CO6: Find indefinite and definite integration. (R)

Course Description:

The course is designed for students of economics, business studies, and management. It assumes very little prerequisite knowledge, so the topics of this course can be understood by students who have not undertaken a mathematics course for some time. The focus of this course is to develop the fundamental knowledge, understanding of basic mathematical tools to be used in other subjects easily. This course comprises the set theory, linear and nonlinear

equations, and its applications in simple business and economics problems like supply and demands analysis, modelling of revenue etc. Also, this course covers matrix algebra and solution of a system of equations with applications in Business, and definite and indefinite. To teach this course, audio-video lecture, presentation, and assignments to be provided. Students will strongly grab the basic concepts of the course via solving exercise and interaction with course instructors.

Course Syllabus:

Unit- I

Set theory: Theory of sets- meaning, elements, types, presentation and equality of sets, union, intersection, compliment & difference of sets, Venn diagrams, Cartesian product of two sets, applications of set theory.

Unit-II

Linear equations: graphs of linear equations, algebraic solution of simultaneous linear equations, supply and demand analysis, algebra, modeling of supply and demand analysis, national income determination.

Non-linear equations: quadratic, exponential and logarithmic equations, modeling of revenue, cost and profit.

Unit-III

Matrices: Types, properties, addition, multiplication, transpose and inverse of matrix; properties of determinants, solution of simultaneous linear equations, differentiation and integration of standard algebraic functions, business applications of matrices.

Unit-IV

Mathematics of finance: percentages, index numbers, and interests, compound interest, investment appraisal.

Unit-V

Differentiation: Derivative of a function, rules of differentiation, marginal functions and elasticity, optimization of economic functions, partial differentiation, functions of several variables, partial marginal functions and elasticity, Lagrange multipliers.

Unit- VI

Integration: Indefinite integration, definite integration.

Test book readings:

5 Hrs

15Hrs

10 Hrs

10 Hrs

15 Hrs

5 Hrs

- Ian Jacques, Mathematics for and Economics and Business (Fifth edition), Pearson India.
- 2. D.C. Sancheti, V.K. Kapoor, Business Mathematics,.

Reference Book:

- J.D. Gupta, P.K. Gupta, Man Mohan, Mathematics for Business and Economics, Tata McGraw Hill Publishing Company Ltd.
- 2. Q. Zameeruddin, V. K. Khanna, S. K. Bhambri, Business Mathematics (Second Edition), Vikas Publishing House PVT LTD.

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination Examination Scheme:

Components	Mid Term	Class Assessment	End Term
Weightage (%)	20	30	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

	Mapping between COs and POs	
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Define various terms related to the theory of sets and its properties with Venn diagrams representations. (R)	PO2,PSO1
CO2	Illustrate the solution of linear, nonlinear equations and the problems related to the supply and demand analysis. (U)	PO2,PO6, PSO1
CO3	Find the inverse of a matrix, determinant, and the solution of a system of linear equations arises from simple business/economics applications. (R)	PO2,PO6,PSO1
CO4	Define the percentages, index numbers, interests, and investment appraisal. (R)	PO2,PO6,PSO1
CO5	Summarize the theory and methods to determine the derivatives of a function of one and several variables for the extreme value of a function. (U)	PO2,PO6,PSO1
CO6	Find indefinite and definite integration. (R)	PO2,PSO1

Course Code	Course Title	De Management Knowledge	Problem Solution	Eadership and Organization Skills	Ethics	Environment and Sustainability	90d : Life-long Learning	Creativity and Innovation	Prepare basic knowledge, skills, tools	and techniques to enable them to take up	² OS Development of entrepreneurial skillsand	Develop competencies to be socially responsible business professionals
MTH11514												
	BUSINESS MATHEMATICS		3				3		3			

1=weakly mapped

2= moderately mapped

3=strongly mapped

Name: Enroln	nent No:	ADAMAS UNIVERSITY PURSUE EXCELLENCE					
	Course: MTH1151	14 – BUSINESS MATHEMATIC	S				
0	Program: BBASemester: ITime: 03 Hrs.Max. Marks: 50						
Instructions: Attempt All Questions from Section A (Each Carrying 1Marks); any Three Questions from Section B (Each Carrying 5Marks). Any Two Questions from Section C (Each Carrying 10 Marks).							
	SECTION	A (Answer All Questions)					
1. E	Explain the stationary point and a	represent it graphically.	U	CO5			
2 What is a set and how to define complement of a set?		R	CO1				
3 Explain the marginal functions with an example?			U	CO5			
4 I	llustrate the solution of the equa	ation: $x^2 - 2x - 3 = 0$.	U	CO2			

	Classify the root	U	CO2		
	SECT	TON B (Attempt an	y Three Questions)		
6.	sells only two n models, and nex Gross dollar sa matrices: Ms. Smith Mr. Jones =A; Ms. Smith Mr. Jones =B, i) What were the each sales people ii) What was September? iii) If both sale	nodels. August was xt year's medels we les for each month	cople in a new-car agency the last month for this year ere introduced in September are given in the following ugust sales luxury \$ 88,000 0 tember sales luxury \$ 368,000 \$ 322,000 in August and September f ollar sales from August commissions on gross doll ch person for each model so	r's er. ng 5 (R) or to ar	CO3
7.		y^2), then show that		5 (U)	C05
8.	If the total rever $100Q - Q^2$, which function. If the change in the value	nue function of a goo at will be an expres current demand is lue of total revenue of	od is given by sion for the marginal reven 60, compute and explain the due to a 2 unit increase in Q.	ue he 5 (U)	CO5 CO5
	If the total rever $100Q - Q^2$, which function. If the change in the val Find (i) $\int (2x + Q^2) dx$	nue function of a goo at will be an expres current demand is lue of total revenue of $1)^{1/3} dx$ (ii) $\int_{-2}^{2} dx$	bd is given by sion for the marginal revenue 60, compute and explain the due to a 2 unit increase in Q. $xe^{-x^2}dx$	ue he 5 (U)	
8.	If the total rever $100Q - Q^2$, which function. If the change in the val Find (i) $\int (2x + Q^2) dx$	nue function of a goo at will be an expres current demand is lue of total revenue of	bd is given by sion for the marginal revenue 60, compute and explain the due to a 2 unit increase in Q. $xe^{-x^2}dx$	he 5 (U)	CO5
8.	If the total rever $100Q - Q^2$, which function. If the change in the vali- Find (i) $\int (2x + SECT)$	nue function of a goo at will be an express current demand is lue of total revenue of $1)^{1/3} dx$ (ii) $\int_{-2}^{2} dx$ FION C (Attempt at rse of $A = \begin{bmatrix} 2 & 4 \\ 4 & 3 \\ 2 & 1 \end{bmatrix}$	bd is given by sion for the marginal revent 60, compute and explain the due to a 2 unit increase in Q. $xe^{-x^2}dx$ my Two Questions)	he 5 (U)	CO5

	-4x + y + 6z = -9,		
	2x + 7y + 5z = 13,		
	using Cramer's rule to find x & y.		
11.	a) A principal of \$2000 is invested at 10% interest compounded	5+5 (R+U)	CO4
	continuously. After how many days will the investment first		+ CO2
	exceed \$2100?		
	 b) The demand and supply functions of a goods are given by P = -2Q_d + 50, P = 1/2Q_s + 25, Where P, Q_d, and Q_s, denote the price, quantity demanded and quantity supplied respectively. i) Illustrate the solution by computing the equilibrium price and quantity. ii) explain the effect on the market equilibrium if the government decided to impose a fixed tax \$5 on each good. 		
12.	a) Show that $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$.	4+3+3 (R)	CO1
	b) Suppose $y = x^2$. What is the inverse of y? Consider the domain {-1,1,-2,2}. Then draw the map and tell they are function or not?		
	c) There are 60 students in a class. 15 students do not have interest in game. 32 students play football and 18 students play cricket. Then find (i) how many students play both the games? (ii) how many students play only football? (iii) How many students play only cricket?		

EC011003	Microeconomics	L	Т	Р	С
Version 1.1	Contact Hours - 60	3	1	0	4
Pre-requisites/Exposure	Basic mathematics and English				
Co-requisites					
Academic year	2021-22				

Course objectives:

- This paper introduces students to the terminology and analytic principles used in microeconomics, which is broadly defined as the study of markets, and to the application of these conceptual tools to several policy issues.
- The decisions of buyers and sellers and their interaction in market transactions will be analysed.
- This also explores how different market structures can shape economic results, and how markets can sometimes (but not always) help society achieve desirable outcomes.

Course Outcomes

On completion of this course, the students will be able to:

CO1: Understand the terminologies and analytic principles used in microeconomics

CO2: Understand and analyze how different market structures can shape economic results

CO3: Analyze of these conceptual tools to several strategic issues in the field of management

CO4: Understand and analyze how different market structures can shape economic results

CO5: Apply micro economic concepts and techniques in evaluating business decisions

Course Description:

This paper will introduce students with more complicated issues of microeconomics around different market structures under imperfect competition. Different types of pricing strategies and market power adopted by the producers. The theoretical concepts of theories of distribution will also be introduced.

Course Structure

Unit I: Demand and Supply 12 Hrs

Determinants of Demand; Law of Demand; Demand Function, Demand Schedule and Demand Curve; Determinants of Supply; Law of Supply; Supply Function, Supply Schedule and Supply Curve; Shift and movement along the Demand & Supply Curve; Elasticity of Demand – Price, Income, Cross; Elasticity of Supply; Substitutes & Complementary Goods, Normal & Inferior Goods. Equilibrium Determination, Impact of changes in Demand and Supply, Change in Equilibrium, Stability of Equilibrium; Consumer Surplus, Producer Surplus, Deadweight Loss, Change in surplus, Incidence of Tax, Impact of Subsidy.

Unit II: Theory of Consumption 12 Hrs

Budget Constraint: Composite goods, Budget Set, Properties of budget set, Budget Line, change in budget line due to change in income and prices, Application: Taxes, Subsidies, Rationing

Preferences: Consumer Preferences, basic assumptions about preferences; Indifference Curves, Indifference Map, Marginal Rate of Substitution; Shape of Indifference curves: Perfect substitutes, perfect complements, Bads, Neutrals, Satiation, Discrete Goods

Utility: Cardinal Utility, Utility function, Total utility, Marginal Utility, Ordinal Utility, Preference, MRS

Choice:Optimal Choice, Consumer's Equilibrium, Change in Equilibrium due to change in income, and prices, Income Consumption Curve, Engel Curve, Price Consumption Curve, Individual Demand, From individual to market demand; Price Effect: Hicks, Slutsky approach, Income Effect, Substitution Effect, Compensated Demand.

Unit III: Theory of Production 15 Hrs

Technological relationship between output and inputs, Production decision of a firm; Production function, short run versus long run production; Production with single variable input: TP, AP, MP, Law of diminishing marginal return; Production with two variable inputs: Isoquant, Economic region of production, Input flexibility, Input substitution; MRTS, Elasticity of substitution; Expansion Path, Returns to scale; Effects of changes in input prices on output. Special Cases: Homogeneous Production Function, Cobb-Douglas Production.

Different types of costs; opportunity cost, sunk cost; fixed cost, variable cost; Costs in the SR production, TC, AC, MC, Cost curves; Costs in the LR production, LR cost curves, relation between SR and LR cost curves; Shift in cost curves.

Input choices, Isocost line, Change in technology and change in input prices; optimal choice of inputs, Economies of Scope, Economics of Scale, Learning Curve.

Unit IV: Market: Perfect Competition 12 Hrs

Profit Maximization by a firm, Competition in a market, Different forms of Competition;

Perfectly competitive market and its characteristics, Choosing output in Short Run, SR supply curve, Choosing output in the Long Run, LR Industry supply curve: Increasing cost industry, Decreasing cost industry, and Constant cost industry;

Efficiency of a competitive market: Effect of Tax, Minimum Prices, Price Support, Production Quota, Impact of tax and subsidy.

Unit V : Market: Imperfect Competition 10 Hrs

Market Power, Sources, Monopoly, Monopsony, Bilateral Monopoly, Natural Monopoly; Monopolist's Output Decision, and pricing.

Monopolistic Competition: Characteristics, Equilibrium in Short and Long run, Economic Efficiency; Branding

Oligopoly: market structure, collusion, competition, equilibrium.

READING LIST:

- 1. Dominick Salvatore (2009). Principles of Microeconomics (5th ed.) Oxford University Press
- 2. Koutosyannis (1979). Modern Micro Economics. Palgrave Macmillan
- 3. Pindyck, Rubinfeld and Mehta. (2009). Micro Economics. (7th ed.). Pearson.
- 4. Lipsey and Chrystal. (2008). Economics. (11th ed.) Oxford University Press.

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination Examination Scheme:

Components	Mid Term	Attendance	Class Assessment	End Term
Weightage (%)	20	00	30	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and Pos						
	Course Outcomes (COs)	Mapped Program Outcomes				
CO1	Understand the terminologies and analytic principles used in microeconomics	PO1, PO 2				

CO2	Understand and analyse how different market structures can shape economic results	PSO1,PO2, PO3, PO 6,
CO3	Application of these conceptual tools to several strategic issues in the field of management	PO2, PSO1, PO 6,
CO4	Understand and analyse how different market structures can shape economic results	PO5, PO6, PO7
CO5	Apply micro economic concepts and techniques in evaluating business decisions	PSO 1, PO7, PO2

		Management Knowledge	Problem Solution	Leadership and Organization Skills	Ethics	Environment and Sustainability	: Life-long Learning	Creativity and Innovation	Prepare basic knowledge, skills, tools	and techniques to enable them to take up	Development of entrepreneurial skills and snirit
Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1		PSO 2
ECO11003	Microeconomics	-	3	-	-	-	3	3	3		-

1= weakly mapped

2= moderately mapped

3=strongly mapped

Course Code- DGS11001	DESIGN THINKING	L	Т	Р	С			
Version 1.0		2	0	0	2			
Pre-requisites/Exposure	sure Knowledge of analyzing society problems and product us problems and a zeal to improve the current situation, addition to knowing to using laptop/computers, inter- social media interaction, file sharing and uploading, email a communication etiquettes.							
Co-requisites								

Course Objectives

- 1. To enable students to acquire knowledge, imagination and be more assertive on opinions on problems in society.
- 2. To enable students to learn basics of research, data collection, analysis, brainstorming to find solutions to issues.
- 3. To make them understand Design Thinking methodologies to problems in field of study and other areas as well.
- 4. To help students to understand future Engineering positions with scope of understanding dynamics of working between inter departments of a typical OEM.

Course Outcomes

On completion of this course, the students will be able to

- CO1. Examine design thinking concepts and principles
- CO2. Practice the methods, processes, and tools of design thinking
- CO3. Apply the Design Thinking approach and model to real world scenarios

CO4. Analyze the role of primary and secondary research in the discovery stage of design thinking

Catalog Description

Design thinking course is a completely online course offered to the first year UG programs across all streams. This course is designed to help understand the steps followed in the process of designing a solution to a problem.

Course Content

UNIT I: WHAT IS DESIGN THINKING

Designers seek to transform problems into opportunities. Through collaboration, teamwork, and creativity, they investigate user needs and desires on the way to developing human-centered products and/or services. This approach is at the very heart of design thinking.

UNIT II: THE DESIGN THINKING MODEL

A tool that helps guide you along a design thinking path. The model does this by providing a series of activities that that will help you effectively design a product, service or solution to a user's need. The model presents the approach as a process, allowing us to look at each step – or phase – along the journey to the development of a final design.

2 hours

2 hours

UNIT III: PHASE 1: DISCOVER

Begin the design thinking process with the Discover phase, where you will identify the specific problem your design is intended to solve, as well as important usability aspects from those who will use your design. Discovery can be performed through a variety of different research methods which you will learn in this module.

UNIT IV: PHASE 2: DEFINE

In the Define phase, you come to understand the problem. We often refer to this as framing the problem. You can do this by using a variety of tools, including storytelling, storyboarding, customer journey maps, personas, scenarios, and more.

UNIT V: PHASE 3: DEVELOP

Turn your attention to solving the problem. In this phase you brainstorm custom creative solutions to the problems previously identified and framed. To do this, you conceptualize in any way that helps, putting ideas on paper, on a computer, or anywhere whereby they can be considered and discussed.

UNIT VI: PHASE 4: DELIVER

This phase is all about testing and building concepts. Here you take all of the ideas that have been discussed to this point and bring them a little closer to reality by building a concept; something that makes it easier for a user to experience a design. This concept is referred to as a prototype.

UNIT VII: PHASE 5: ITERATE

You will test the prototype of your design solution, collecting and acting on feedback received. These actions may mean minor or major revisions to your design, and are repeated as often as necessary until a solution is reached. Tools such as focus groups and questionnaires are used to help you collect feedback that can help with your final design.

UNIT VIII: BEYOND DESIGN THINKING

The Design Thinking Model is a tool that helps guide you along a design thinking path. The model does this by providing a series of activities that that will help you effectively design a product, service or solution to a user's need. The model presents the approach as a process, allowing us to look at each step – or phase – along the journey to the development of a final design.

Text Books

1. All the references are available to download in the online course.

Reference Books

- 1. Brown, Tim. "What We Can Learn from Barn Raisers." Design Thinking: Thoughts by Tim Brown. Design Thinking, 16 January 2015. Web. 9 July 2015.
- 2. Knapp, Jake. "The 8 Steps to Creating a Great Storyboard." Co.Design. Fast Company & Inc., 21 Dec. 2013. Web. 9 July 2015.
- 3. van der Lelie, Corrie. "The Value of Storyboards in the Product Design Process." Journal of Personal and Ubiquitous Computing 10.203 (2006): 159–162. Web. 9 July 2015. [PDF].

4 hours

4 hours

4 hours

4 hours

4 hours

2 hours

4. Millenson, Alisson. "Design Research 101: Prototyping Your Service with a Storyboard." Peer Insight. Peer Insight, 31 May 2013. Web. 9 July 2015.

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination Examination Scheme:

Components	Mid Term	Class Assessment	End Term			
Weightage (%)	20	30	50			

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and Pos							
	Course Outcomes (COs)	Mapped Program Outcomes					
CO1	Examine design thinking concepts and principles.	PO5, PO6					
CO2	Practice the methods, processes, and tools of design thinking.	PO7, PO5					
CO3	Apply the Design Thinking approach and model to real world scenarios.	PO6, PSO3					
CO4	Analyze the role of primary and secondary research in the discovery stage of design thinking	PO7, PSO3					

		Management Knowledge	Problem Solution	Leadership and Organization Skills	Ethics	Environment and Sustainability	Life-long Learning	Creativity and Innovation	Prepare basic knowledge, skills, tools and techniques to enable them to take up higher studies and research.	Development of entrepreneurial skills and spirit.	Develop competencies to be socially responsible business professionals.
Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PS03
DGS11001	Design Thinking	-	-	-	-	3	3	3	-	-	3

1=weakly mapped

2= moderately mapped

3=strongly mapped

Name:

Enrolment No:



Course: DGS11001– Design Thinking

Program: BBA Time: 03 Hrs. Semester: Odd 2020-21 Max. Marks: 50

Instructions:

Attempt All Questions from Section A (Each Carrying 2 Marks); any Four Questions from Section B (Each Carrying 5 Marks). Any Two Questions from Section C (Each Carrying 10 Marks).

	SECTION A (Answer All Questions)		
1.	Is design thinking applicable to all spheres of human endeavor?	Remembering	CO1
2	Is design thinking applicable to services?	Understanding	CO1
3	Define wicked problems in the context of design thinking.	Remembering	CO2
4	What traits are needed to identify societal problems?	Remembering	CO1
5	Why is design thinking a collaborative process?	Remembering	CO1
	SECTION B		
1.	Design thinking is not common among organizations. Why?	Understanding	CO2
2	What are the methods of defining the social problems?	Remembering	CO3, CO2
3.	Design Thinking is an iterative process. Why is it so?	Understanding	CO 3
4.	Though time consuming, design thinking brings the most suitable solution. Analyze the statement.	Analysing	CO3
	SECTION C (Attempt any Two Questions)		
1.	Trace the genesis and evolution of Design Thinking as a method of solving wicked societal problems in your domain of study.	Applying	CO4
2.	Take any societal problem you feel passionately about. Discuss how you would go about finding a solution to that problem.	Applying	CO4
3.	Poverty is a very widespread problem the society faces. Assume you are given the authority to solve the problem in your locality. How would you go about planning for finding and implementing a solution? Who are the other agencies/bodies you would collaborate with?	Creating	CO4

BAN11003	CONCEPT OF DATA STRUCTURE &	L	Т	Р	С
	DATA MANAGEMENT				
Version 1.0	Contact Hours - 30	2	0	0	2
Pre-requisites/Exposure	Basic Calculation Skills				
Co-requisites					
Academic Year	2021-22				

Course Objectives

- 1. To understand the utility of data pre-processing for Data Analytics
- 2. To expand individual knowledge on different data structures and data models
- 3. To understand the various data management techniques used in the industry
- 3. To gain understanding of data engineering frameworks

Course Outcomes:

CO1: Choose appropriate data structure as applied to specified problem definition

CO2: To handle operations like searching, insertion, deletion, traversing mechanism etc. on various data structures

CO3: To apply concepts learned in various domains like DBMS, compiler construction

CO4: To use linear and non-linear data structures like stacks, queues and linked list

Course Description:

Global market demand reflects the growing pervasiveness of business reporting, predictive analytics and data visualization. This course will help participants learn Data Engineering which is at the core of Data Analytics journey. The course will provide exposure to participants on different data structures and operations. Further, the course will provide exposure to data manipulation techniques and data management frameworks which will enable the participants to design strategies for overall database design and implementation.

Course structure:

Unit 1: 12 Hours

Data Structures – Introduction to Data Structures; abstract data types; linear list – single linked list implementation; circular linked list implementation; Double linked list implementation, insertion; Applications of linked lists

Stacks-Operations, array and linked representations of stacks, stack applications -infix to postfix conversion, postfix expression evaluation, recursion implementation

Queues-operations, array and linked representations. Circular Queue operations, Dequeues, applications of queues.

Searching and Sorting – Sorting- selection sort, bubble sort, insertion sort, quick sort, merge sort, shell sort, radix sort, Searching-linear and binary search methods, comparison of sorting and searching methods

Unit 2:8 Hours

Trees – Definitions, tree representation, properties of trees, Binary tree, Binary tree representation, binary tree properties, binary tree traversals, binary tree implementation, applications of trees, Introduction to Databases and Transactions: What is database system, purpose of database system, view of data, relational databases, database architecture, transaction management, Data Models: The importance of data models, Basic building blocks, Business rules, The evolution of data models, Degrees of data abstraction

Unit 3: 10 Hours

Database Design; ER-Diagram and Unified Modeling Language- Issues, weak entity sets, Codd's rules, Relational Schemas; Relational database model: Logical view of data, keys, integrity rules; Relational Database design (RDBMS): features of good relational database design, atomic domain and Normalization (1NF, 2NF, 3NF, BCNF); Relational Algebra and Calculus: set operations, renaming, Joins, Division, syntax, semantics. Operators, grouping and ungrouping, relational comparison; Constraints, Views and SQL- What is constraints, types of constraints, Integrity constraints, Introduction to views, data independence, security, updates on views, comparison between tables and views

SQL: data definition, aggregate function, Null Values, nested sub queries, Joined relations. Triggers

Suggested Readings:

- 1. Database System Concepts- Henry F. Korth, Abraham Silberschatz, S. Sudarshan
- 2. Foundations of SQL Server 2008 R2 Business Intelligence- Guy Fouche & Lynn Langit

Project:

The class will be divided into Groups consisting of 5 members each. Each group will be given a dataset which will analyze one real life scenario. The Group will have to analyze the data and create reporting frameworks and dashboards learnt during the sessions. Each group will present before all student as a result all students should have an idea of different real life scenarios and how to analyze the data.

Modes of Evaluation: Quiz/Assignment/presentation/Written Examination Examination Scheme:

Components	Mid Term	Class Assessment	End Term
Weightage (%)	20	30	50

	Mapping between COs and POs									
	Course Outcomes (COs)	Mapped Program Outcomes								
CO1	Choose appropriate data structure as applied to specified problem definition	PO1, PO2, PO6, PO7, PO8, PSO1								
CO2	To handle operations like searching, insertion, deletion, traversing mechanism etc. on various data structures	PO1, PO2, PO6, PO8, PSO1, PSO2								
CO3	To apply concepts learned in various domains like DBMS and compiler construction	PO1, PO2, PO6, PO7, PO8, PSO1, PSO2								
CO4	To use linear and non-linear data structures like stacks, queues and linked list	PO1, PO2, PO3, PO6, PO7, PO8, PSO1, PSO2, PSO3								

Course		Domain Knowledge	Problem Solution	Leadership and Organization Skills	Ethics and Governance	Environment and Sustainability	Life-long Learning	Creativity and Innovation	Employability	Create capabilities of converting theoretical knowledge and data into practical applications with help of analytical tools and techniques.	Keep abreast of trans-disciplinary trends which can be brought to bear in creating strategic and tactical benefits in a VUCA world.	Develop competencies to be socially responsible business professionals.
Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 03
BAN11003	Concept of data structure and Database Management	3	3	1	-	-	3	2	2	3	2	2

1= weakly mapped

2= moderately mapped

3=strongly mapped



FAC1	11003	Principles of Accounting L	Γ Ρ C							
Versio	on 1.0	Contact Hours - 60 3	1 0 4							
Pre-re	equisites/Exposure	Basics of Accounting								
Co-requisites										
Course Objectives										
01	01 This course will enable the students to have knowledge about the basics of accounting with									
	concepts, principles and con									
02		will learn recording of transactions in journal, posting it to	ledger and							
	<u> </u>	records by preparing trial balance.								
03		e will learn depreciation accounting required in the prep	paration of							
	financial statements.									
04	-	udents in understanding the method of preparation of cash	book and							
	Bank Reconciliation Statem									
05		will have the ability to prepare Financial Statements of diffe	erent forms							
	of business entities.		-							
		Course Outcomes								
	mpletion of this course the stu									
CO1		nting with concepts, principles and conventions.								
CO2	5	nal, post it to ledger and check the authenticity of records by	/ preparing							
<u> </u>	trial balance.	· .·								
CO3		preciation accounting in preparation of financial statements.								
CO4		valuate the reasons of difference between cash book and	pass book							
CO5	balance and prepare Bank R	nts of different forms of business entities.								
CO5	Prepare Financial Statemen									
T '	· 1 A	Course Description	1							
		primation describing the financial resources, obligations, and								
	•	nancial position is used to describe an entity's financial res								
-	-	and the term results of operations is used to describe it ourse focuses on detailed understanding of accounting in								
		bunting principles, accounting cycle, recording of transac								
•	ial statement concepts.	building principles, accounting eyele, recording of transac	Alons, and							
mane	lai statement concepts.	Course Contents								
Unit-	1 Introduction	Course Contents	(3 L)							
		accounting information; Financial & Management A								
	e	ounting information; Double entry book keeping system	÷							
-		sets, liabilities, equity, revenue and expenses; Accounting C								
Unit-			(3 L)							
Umt-	- Accounting Concepts a									

Bases	of account	ing: Cash basis and Accrual	basis, Basic concepts and	conventions: entity, mon
measu	rement, g	oing concern, cost, realiz	zation, accruals, periodicit	ty, consistency, pruden
(conse	ervatism), m	ateriality, matching and full di	isclosures.	
Unit-	-3 Journa	l and Ledger		(8 L)
Journa	al: Introduc	tion, need, functions, advant	tages of Journal, recording	of entries in Journal wi
narrati	ion; Double	entry system		
Ledge	r: Features a	and functions of ledger, posting	g from journal to respective le	edger.
Unit-	4 Trial B	alance		(4 L
Introd	uction, need	and limitations of trial baland	ce, preparation and application	on of trial balance, errors a
types	of errors			
Unit-	-5 Depree	iation		(5 L)
The n	ature of dep	preciation - The accounting c	concept of depreciation - Fac	ctors in the measurement
deprec	ciation - Met	hods of computing depreciation	on: straight line method and d	liminishing balance method
Dispo	sal of depred	ciable assets - change in metho	od of charging depreciation - A	Accounting for depreciation
Asset-	depreciation	n, Asset-provision.		
Unit-	6 Cash B	ook and Bank Reconciliatio	n Statement	(7 L)
		duction, features, functions,	advantages, types of cash b	book-single column, dout
	-	umn and petty cash book.		
		on Statement: Banking transa		
-		ween the balances as per Cash	Book and Bank Statement; P	ractical steps for preparation
		ation Statement.		
Unit-		Accounts		(10 L
_		nancial Statements: Sole Pr		es from a Trial Balance
Manut	facturing, Ti	ading, P/L A/c and Balance S	heet.	
Sugge	sted Reading	ngs:		
	Books:			
	,	, Gupta: Advanced Account		
		gal, Advanced Accountancy		on
		nerjee, Financial Accounting	g, TMH	
	ence Book			
		cial Accounting, Pearson		.
5. Mu	0	d Mukherjee, Financial Acc	<u> </u>	
	Mode	s of Examination: Assignment		n/Written Exam
			ination Scheme:	1
	nponents	Internal	Mid Term	End Term
Weig	htage (%)	30	20	50
	Relation	nship between the Course Ou		n Outcomes (POs)
		Mapping b	etween COs and Pos	
		Course Outcon	nes (COs)	Mapped Program Outcomes
CO1	Discuss th	e basics of accounting with co	ncepts, principles and conven	
		insactions in journal, post it to		ticity
		PO1, PO2, PO5		
CO2		by preparing trial balance.		
CO2 CO3	of records	by preparing trial balance. e knowledge of depreciatio	n accounting in preparation	on of PO1, PO2, PO5

CO4	-	Prepare cash book and evaluate the reasons of difference between cash book and pass book balance and prepare Bank Reconciliation Statement. PO2, PO4, PO5										
CO5	Prepare	Prepare Financial Statements of different forms of business entities.PO2, PO3, PO5										
				Holistic overview on Trade and Commerce	Expertise in Accounting and Management Accounting	Specific Trade and Commerce practices	Knowledge on BIFS	Analytical skills for Decision Making and Research				
Cours	se Code	e Course Title		PO1	PO2	PO3	PO4	PO5				
FAC	C11003 Principles of Accounting		3	3	1	1	3					
	1=Weakly	mapped	2=Moderately	mapped		3=Strong	ly mapped					

LWJ11014	Business Law	L	Т	Р	С
Version 1.0	Contact Hours – 60	3	1	0	4
Pre-requisites/Exposure	-				
Co-requisites	-				

Course Objectives

- 1. To provide basic and broad knowledge in business laws in management.
- 2. To get the ability to apply concepts, principles and theories to understand simple business laws.
- 3. To become aware of the different business laws.
- 4. To gain awareness of the global business laws and its impacts on businesses.

Course Outcomes

On completion of this course, the students will be able to

- CO1. Understand the Legal environment in India and would be in position to differentiate on the functions of different courts and their structure.
- CO2. Understand and learn the concept of Contract Act, its applicability in business and litigations to draft a valid contract.
- CO3. Describe the applicability of Sale of Goods act, Rights of Seller and Buyer
- CO4. Recognition of Consumer Redressal forum and also to understand their rights and duties.
- CO5. Understand the concept of negotiable instruments and importance of such instruments in business organization.

Course Description

This course is designed to provide the student with knowledge of the legal environment in which a consumer and businesses operates, and to provide the student with knowledge of legal principles

Course Content

Unit-1 Introduction to Business Law

Hrs)

Meaning and Philosophy of Law - Object ofLaw - Classification of Law - Justice Delivery System in India - Classification of Courts in India

(10)

Unit-2: Indian Contract Act, 1872

(14 Hrs)

Contract: Meaning and essential elements of a valid contract, types of contracts. Offer and Acceptance: meaning, rules relating to valid offer and acceptance; Consideration: definition; essential elements, Capacity of Parties; free consent; Void and Voidable Agreements: wagering agreement. Discharge of Contracts: meaning; methods of termination or discharge of contract. Special Contracts

Unit-3: The Sale of Goods Act, 1930

(12 Hrs)

Meaning of Contract of a Sale, Sale and an agreement to sell, Essential elements of contract of sale, Sale distinguished from hire purchase , Bailment , Mortgage .Conditions and Warranties, Doctrine of Caveat Emptor ,Unpaid seller and his rights.

Unit-4: Consumer Protection Act, 1986

(12 Hrs)

Objective of the Act, Definitions of complaint, consumer; consumer dispute, goods, services, etc. Objectives of Central Council and State Council, Consumer Dispute Redressal forums, Manner of Lodging a Complaint and Appeal

Unit-5: Negotiable Instruments Act

(12Hrs)

Definition of a negotiable instrument; instruments negotiable by law and by custom; types of negotiable instruments; parties to a negotiable instrument - duties, rights, liabilities and discharge; material alteration; crossing of cheques

Reference Books

Text Books:

- 1. P C Tulsian (2017), Business Law, 3rd Edition, Tata McGraw Hill, New Delhi
- 2. M.C. Kuchhal and Vivek Kuchal (2018), Business Law, 7th Edition, S Chand Publishing
- 3. Telpal Seth, (2017) Business Law, 3rd Edition, Pearon

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination Examination Scheme:

Components Mid Term		Class Assessment	End Term
Weightage (%)	20	30	50

	Mapping between COs and Pos								
	Mapped Program Outcomes								
CO1	Understand the Legal environment in India and would be in position to differentiate on the functions of different courts and their structure.	PO3, PO6, PSO2							
CO2	Understand and learn the concept of Contract Act, its applicability in business and litigations to draft a valid contract.	PO5, PO4, PSO2							
CO3	Describe the applicability of Sale of Goods act, Rights of Seller and Buyer.	PO5, PO4, PO6							
CO4	Will be able to understand the process of Consumer Redressal forum and also to understand their rights and duties	PO5, PO3, PSO1							
CO5	Understand the concept of negotiable instruments and importance of such instruments in business organization.	PO4, PO4, PSO1							

Course		Management Knowledge	Problem Solution	Leadership and Organization Skills	Ethics	Environment and Sustainability	Life-long Learning	Creativity and Innovation	Prepare basic knowledge, skills, tools and techniques to enable them to take up higher studies and research.	Development of entrepreneurial skills and spirit.	Develop competencies to be socially responsible business professionals.
Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PS03
LWJ11014	Business Law	-	-	-	3	3	3	-	3	-	3

1=weakly mapped

2= moderately mapped

3=strongly mapped

Model Question Paper

Nai Eni	me: rolment No:	ADAMAS UNIVERSITY PURSUE EXCELLENCE		
Pro	Course: LW,	J11014 – Business Law Time: 03 Hrs.		
	nester: II	Max. Marks: 50		
Att Sec	tion B (Each Carrying 5 Marks). Any Marks).	ach Carrying 2 Marks); any Four Quest Two Questions from Section C (Each ((Answer All Questions)		
1.	Define Business Law. (Rememberin		2	CO
2.	Define Contract. (Remembering)		2	CO
3.	Explain the meaning of Bailment. (Understanding)			
4.	Define Consumer as per Consumer Protection Act. (Remembering)			
5.	Define Negotiable Instrument. (Rem		2	CO CO
	SECT	ΓΙΟΝ Β		
1.	Explain the elements of a valid contr	act. (Understanding)	5	CO
2.	Distinguish between Hire Purchase a	nd Lease. (Analyzing)	5	CO
3.	State the ethical issues involved in La	egal System in India. (Analyzing)	5	со
4.	Explain the functions of Consumer D	Dispute Redressal Forum. (Analyzing)	5	CO
	SECTION C (Attem	npt any Two Questions)		•
1.	Explain the process of Lodging of Co	omplaint and Appeal. (Creating)	10	CO
2.	Explain the consequences of materia (Understanding)	al alterations in negotiable instruments.	10	CO
3.	(a) Define Free Consent. (Remembe	ring)	2	CO
	(b) Explain the term Wagering Agree	ement. (Understanding)	2 6	CO
	(c) Classify the law as per the Indian	Judiciary System (Analyzing)	U	CO

SDS11503	Business Statistics	L	Т	Р	С
Version 1.1	Contact Hours - 60	3	1	0	4
Pre-requisites/Exposure	12 th level Mathematics				
Co-requisites					
Academic year	2020-21				

Course objectives:

- 1. To use the techniques of statistical analysis, which are commonly applied to understand and analyse business problems.
- 2. To strengthen the knowledge of the students in data collection, presentation, and to understand the basic descriptive properties of the data with statistical tools and techniques.
- 3. To enhance the fundamental knowledge of probability where the true essence of statistics lies.

Course Outcomes

On completion of this course, the students will be able to:

- CO1: Define different measurements of statistical data and diagrammatic representation of data.
- CO2: Illustrate the basic concept of correlation and regression of bivariate data.
- CO3: Classify classical, statistical and axiomatic definition of probability and use Bay's theorem to measure happening of an event.
- CO4: **Compare** discrete distribution and continuous distribution of random variables with their fundamental properties.
- CO5: Find probability mass function of Binomial distribution, geometric distribution and Poisson distribution.
- CO6: Define probability density function of Uniform distribution and Normal distribution.

Course Description:

This course introduces several techniques of statistical analysis, which are commonly applied to understand and analyse business problems. The course deals with simple tools and techniques, which will help a student in data collection, presentation, and to understand the basic descriptive properties of the data. This course introduces the concept of bivariate data and their application in several areas. A major emphasis is given on the fundamental knowledge of probability where the true essence of statistics lies. This course contains probability distribution of discrete and continuous random variables, different measures to obtain the nature of statistical data, correlation and regression.

Course Structure

Unit-I 10L

Statistics: definition, scope and limitation, presentation of data, diagrammatic and graphical representation of data, measures of central tendency, mean, median and mode, geometric and harmonic mean and their limitations.

Unit-II 10L

Correlation: Scatter diagram, Karl-Pearson's correlation, concurrent deviation method, rank correlation, uses of correlation in business regression, regression lines, regression coefficients, properties of regression coefficients, and uses of regression in business problems.

Unit-III 10L

Theory of probability: Probability as a concept, basic probability rules, tree diagrams, conditional probability, mutually exclusive events and independent events, Bayes' theorem or inverse probability rule.

Unit-IV 08L

Probability distribution of a random variable: Discrete and Continuous random variables, expectation value, mean and variance of a random variable, theorems on expectation.

Unit-V 14L

Theoretical probability distributions: Probability mass function and density function, discrete distributions, the Binomial distribution and its properties, idea of geometrical and hyper geometric distributions, the Poisson distribution and its properties, fitting a Binomial or Poisson distribution to an observed distribution.

Unit-VI 08L

Continuous distribution, uniform, exponential and Normal distributions, Normal approximation to Binomial and Poisson distributions.

Text Book(s):-

TH-1. Gupta, S.P. & M.P. Gupta, Business Statistics

TH-2. Davis: Business Statistics using Excel, Oxford University Press.

TH-3. Gupta, C.B., An Introduction to Statistical Methods

TH-4. Gupta, B.N., An Introduction to Modern Statistics

TH-5. Sancheti, S.C. & V.K. Kapoor, Statistical Methods

TH-6. Ellhans, D.N., Fundamentals of Statistics

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination Examination Scheme:

Components	Mid Term	Attendance	Class Assessment	End Term
Weightage (%)	20	00	30	50

	Mapping between COs and Pos	
	Course Outcomes (COs)	Mapped Program Outcomes
C01	Define different measurements of statistical data and diagrammatic representation of data.	PO2, PO6, PSO3
CO2	Illustrate the basic concept of correlation and regression of bivariate data.	PO2, PO 6, PSO1
CO3	Classify classical, statistical and axiomatic definition of probability and use Bay's theorem to measure happening of an event	PO2, PO 6, PSO1
CO4	Compare discrete distribution and continuous distribution of random variables with their fundamental properties.	PO6, PSO1
CO5	Find probability mass function of Binomial distribution, geometric distribution and Poisson distribution.	PO2, PO6, PSO3
CO6	Define probability density function of Uniform distribution and Normal distribution.	PO2, PO6

		Management Knowledge	Problem Solution	Leadership and Organization Skills	Ethics	Environment and Sustainability	Life-long Learning	Creativity and Innovation	Prepare basic knowledge, skills, tools and techniques to enable them to take up higher studies and research.	Development of entrepreneurial skills and spirit.	Develop competencies to be socially responsible business professionals.
Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1	PSO 2	PSO3
SDS11503	Business Statistics		3				3		3		3

1= weakly mapped

2= moderately mapped

3=strongly mapped

Name:

Enrolment No:



Course: SDS11503 – Business Statistics **Program: BBA** Time: 03 Hrs.

Semester: II Max. Marks: 50

Instructions:

Attempt All Questions from Section A (Each Carrying 2 Marks); any Four Questions from Section B (Each Carrying 5 Marks). Any Two Questions from Section C (Each Carrying 10 Marks).

	SECTION A (Answer All Questions)		
1.	Define primary data and secondary data.	Remembering	CO1
2	Show that $Cov(x, x) = \sigma_x^2$.	Understanding	CO2
3	Explain the limitations of classical definition of probability.	Understanding	CO3
4	What is median and mode of a distribution?	Remembering	CO1
5	Explain the positive and negative correlation.	Understanding	CO2
	SECTION B		
1.	The average salary of male employees in a firm was Rs. 5200 and that of females was Rs. 4200. The average salary of all employees was Rs. 5000. Find the percentage of male and female employees.	Remembering	CO1
2	A speaks the truth 3 out of 4 times and B 7 times out of 10. They agree in their statement that from a bag containing 6 balls of different colors, a white ball has been drawn. Find the probability that the statement is true.	Understanding	CO3
3.	The distribution function F(x) of a random variate X is defined as follows $F(x) = \begin{cases} A, -\infty < x < -1 \\ B, -1 \le x < 0 \\ C, 0 \le x > 2 \\ D, 2 \le x < \infty \end{cases}$ Find the value of the constants A, B, C, D given that $P(X = 0) = \frac{1}{6}$ and $(X > 1) = \frac{2}{3}$.	Understanding	CO4
4.	If a random variable X follows normal distribution such that $P(9.6 \le X \le 13.8) = 0.7008$ and $P(X \ge 9.6) = 0.8159$ where $\frac{1}{\sqrt{2\pi}} \int_{-\infty}^{0.9} e^{-\frac{t^2}{2}} dt = 0.8159$, $\frac{1}{\sqrt{2\pi}} \int_{-\infty}^{1.2} e^{-\frac{t^2}{2}} dt = 0.8849$, find mean and variance of X.	Remembering	CO6

	SECTION C (Attempt any Two Questions)		
1.	Suppose you are working with a data set(X) that is normally distributed with mean(μ)as 200 and standard deviation (σ) as 47. Then find the following (i) the value of x for which 60% of the values are greater than x. (ii) $P(X \le 250)$. (iii) How much percentage of the data is in the interval[175,225]?	Remembering	CO6
2.	Goals scored by two teams A and B in football seasons were as follows:Team A279854Team B179653Find out which team is more consistent?	Remembering	C01
3.	a) Show that the correlation coefficient for the following data is 0.6: $\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Understanding	CO2
	b) Show that mean and variance of a Poisson distribution is same.	Remembering	CO5

EC011501	Macroeconomics L T			Р	С
Version 1.1	Contact Hours - 60	3	1	0	4
Pre-requisites/Exposure	Understanding management principles				
Co-requisites					
Academic year	2021-22				

Course objectives:

- 1. To develop fundamentals ideas of macroeconomics relevant to business.
- 2. The course will help to learn different theories associated with issues of open as well as closed economies.
- 3. The course should develop idea of output and employment determination in a country in short as well as long runs.

Course Outcomes:

At the end of the course, the student will be able to:

CO1	Understand various theoretical issues related to an open economy.
	Recall of measurement of aggregate macroeconomic variable like
	savings, investment, GDP, money, inflation, and the balance of
CO2	payments
	Explore various alternative theories of output and employment
	determination in a closed economy in the short run as well as long
CO3	run and the role of policy in this context

Course Description:

The objective of the course is to make students understand and analyse how different macroeconomic variables are measured and can shape economic results. The course analyses different macroeconomic concepts and techniques in evaluating business decisions under different situations both in case of open and closed economy. Students will be able to understand the terminologies and analytic principles used in macroeconomics and the application of these conceptual tools to several strategic issues in the field of management. Simple geometry and basic concepts of mathematics will be used in the course of teaching.

Course Structure:

Unit 1: Introduction to Macroeconomics and National Income Accounting

Basic issues studied in macroeconomics; measurement of gross domestic product; income, expenditure and the circular flow; real versus nominal GDP; price indices.

Unit II: The Closed Economy in the Short Run

Classical and Keynesian systems; simple Keynesian model of income determination; ISLM model; fiscal and monetary multipliers.

Unit III: Aggregate Demand and Aggregate Supply Curves

Derivation of aggregate demand and aggregate and supply curves; interaction of aggregate demand and supply.

Unit 1V: Money and Inflation

Functions of money; quantity theory of money; determination of money supply and demand; credit creation; tools of monetary policy, cost push and demand pull inflation.

Unit V: Unemployment and Expectations

Aggregate supply- the Sticky-Price Model, the Imperfect Information Model; Okun's Law; the short-run trade -off between inflation and unemployment; Phillips Curve; Shifts in the Phillips curve; the role of expectation; Natural Rate of unemployment ;The Phillips curve and the Aggregate supply curve; The debate.

Text Books

T1. N. Gregory Mankiw. Macroeconomics, Worth Publishers, 7th edition, 2010.

T2. Dornbusch, Fischer and Startz, Macroeconomics, McGraw Hill, 11th edition, 2010

T3. Andrew B. Abel and Ben S. Bernanke, Macroeconomics, Pearson Education, Inc., 7th edition, 2011.

Reference Books

R1. Olivier Blanchard, Macroeconomics, Pearson Education, Inc., 5th edition, 2009

R2. Steven M. Sheffrin, Rational Expectations, Cambridge University Press, 2nd edition, 1996.

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination Examination Scheme:

Components	Mid Term	Class Assessment	End Term
Weightage (%)	20	30	50

Mapping between COs and POs				
	Course Outcomes (COs)	Mapped Program Outcomes		

CO1	Understand various theoretical issues related to an open economy.	PO1, PO 2, PO6, PSO1
CO2	Recall of measurement of aggregate macroeconomic variable like savings, investment, GDP, money, inflation, and the balance of payments	PO1,PO2, PO 6, PSO1
CO3	Explore various alternative theories of output and employment determination in a closed economy in the short run as well as long run and the role of policy in this context	PO1, PO2, PO3, PO 6, PSO1

		Management Knowledge	Problem Solution	Leadership and Organization Skills	Ethics	Environment and Sustainability	: Life-long Learning	Creativity and Innovation	Prepare basic knowledge, skills, tools	and techniques to enable them to take up	Development of entrepreneurial skills	Develop competencies to be socially responsible business professionals.
Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1		PSO 2	PS O3
ECO11501	Macroeconomics	3	3				3		3			

1= weakly mapped

2= moderately mapped

3=strongly mapped

Name:

Enrolment No:



Course: ECO11501– Macroeconomics

Program: BBA Time: 03 Hrs.

Semester: II Max. Marks: 50

Instructions:

Attempt All Questions from Section A (Each Carrying 2 Marks); any Four Questions from Section B (Each Carrying 5 Marks). Any Two Questions from Section C (Each Carrying 10 Marks).

	SECTION A (Answer All Questions)		
1.	Define trade balance.	Remembering	CO1
2	Justify the statement 'Short Run Phillips Curve is downward sloping'.	Understanding	CO3
3	Define GDP deflator.	Remembering	CO2
4	What is the relationship between investment and income in Simple Keynesian Model	Remembering	CO2
5	What do you mean by marginal propensity to consume?	Remembering	CO2
	SECTION B		
1.	Explain graphically the change in the position of aggregate expenditure curve due to fall in interest rate.	Understanding	CO2
2	Discuss the nature of Long Run Phillips Curve	Applying	СОЗ,
3.	Illustrate Capital Account in the Balance of Payment.	Understanding	CO 1
4.	Analyse how MPC (marginal propensity to consume) and the slope of IS curve.	Analysing	CO2
	SECTION C (Attempt any Two Questions)		1
1.	What are the assumptions of Simple Keynesian Model and illustrate the role of inventory in Keynesian system in open economy.	Remembering, Understanding	CO1
2.	Discuss in detail the three methods of National income accounting and state the precautions that should be kept in mind while calculation national income.	Applying	CO2
3.	Discuss graphically the impact of increase in money supply in the economy on equilibrium level of income and interest rate in	Applying	CO2

IS-LM model.	

OBH11002	Behavioural Science	L	Т	Р	C
Version 1.1	Contact Hours – 60	3	1	0	4
Pre-requisites/Exposure	Understanding management principles				
Co-requisites	Developing human skills				
Academic year	2021-22				

Course Objectives:

- 1. Provide scope to the students to develop behavioral insight, identifying and prioritizing behaviors effectively, in the context of individuals, groups and organizations.
- 2. Use behavioral frameworks to systematically investigate and analyze behaviors.
- 3. Develop a behavior change intervention using a behavioral analysis.
- 4. Think through how a behavior change intervention can be implemented effectively.

Course Outcomes:

At the end of the course, the student will be able to:

- CO1: Familiarize with basic individual and group behavioral aspects that influence organizational effectiveness, sustainability and change.
- CO2: Understand inter-personal behavior in work groups and develop knowledge and skills in communication, and relationship building.
- CO3: Understand and manage interpersonal relationships and thus maintain better workplace environment.
- CO4: Understand and participate in handling issues related to individual behavior and interpersonal behavior

Course Description:

This course fulfills behavioral requirements of BBA students and is open to any graduate student with interest in the material. This course covers essential content in addressing behavioral science concepts for application across corporate or business management domains. The course focuses on Group and Organizational dimensions of behavioural science. It provides exposure to multiple behavioral theories and application of theory in understanding the behavior of employees at work. Lectures and readings provide students with an overview of theories and their implementation. Group activities provide the opportunity to apply learning to practice simulations, and assignments to synthesize lectures and readings into intellectual and creative documents.

Course Content:

Unit I: Introduction to Organization Behavior: Concept and Emergence of OB Concept; Disciplines contributing to the field of OB, Challenges and Opportunities for Organizational Behavior. [10 Lectures]

Unit II: Individual Dimensions in Organizational Behavior: Personality – Meaning, Theories, Determinants and Distortions; Perception – Meaning, Process, etc.; Motivation – Meaning, Process, Content Theories vs. Process Theories, Maslow's Need Hierarchy, Herzberg's Two Factors Theory, Goal Setting Theory, etc.; Attitude and Job Satisfaction. [10 Lectures]

Unit III: Inter-personal Behavior: Interpersonal Communication and Feedback; Transactional Analysis (TA); Johari Window; Managing misbehavior at work - Sexual abuse, Substance abuse, Cyber slacking, etc. [10 Lectures]

Unit IV: Group and Interpersonal Dimensions: Group Formation, Classification, Stages of Group Development, Dysfunctional Groups, Group Decision Making; Conflict Management - Types of Conflicts, Traditional and modern approaches to Conflict, Resolution of Conflict; Leadership – Styles & Theories; Power; Communication; Negotiation

[10 Lecture Hours]

Unit IV: Organizational Dimensions and Processes: Organization Culture – Concept; Organizational Climate - Concept, Determinants, OCTAPACE Model; Organizational Effectiveness - Concept and Measurement; Organizational Change – Concept, Resistance and Management. [10 Hours]

Text Books:

- 1. Aswathappa, K.: Organization Behaviour, Himalaya Publishing House, Mumbai.
- 2. Prasad, L.M.: Organization Theory and Behaviour, HPH, New Delhi.
- 3. Luthans, F.: Organizational Behaviour, Ed. VII, PHI, New Delhi.

Reference Book(s) & other resources:

- 1. Robins, S.P. and Sanghi, S.: Organizational Behaviour, Ed. XI, Pearson-Education, New Delhi.
- 2. Sakaran, U.: Organizational Behaviour, TMH, N. Delhi.

- **3.** Newstrom, J. W. and Davis, K: Organizational Behaviour: Human Behaviour at Work, Ed. V. New Delhi: Tata McGraw Hill.
- 4. Mullins, L. J.: Management and Organizational Behaviour, Pearson- Education, N. Delhi.

Project:

The class will be divided into groups consisting of 5 members in each. Each group will interact with 20 people to understand the behavioural and attitudinal changes observed in them in the pandemic crisis. The objective of the project is to acquaint the students with the relevance of the behavioural theories and concepts. Students are required to submit the report just after mid-semester examination. Each group will present their work in the class such that all students should have an idea of the practical and managerial implications of behavioural concepts.

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination Examination Scheme:

Components Mid Term		Class Assessment	End Term
Weightage (%)	20	30	50

	Mapping between COs and Pos							
	Course Outcomes (COs)	Mapped Program Outcomes						
CO1	Familiarize with basic individual and group behavioral aspects that influence organizational effectiveness, sustainability and change.	PO1, PO 2, PSO1						
CO2	Understand inter-personal behavior in work groups and develop knowledge and skills in communication, and relationship building.	PO1,PO2, PO3, PO 6, PSO3						
CO3	Understand and manage interpersonal relationships and thus maintain better workplace environment.	PO2, PO4, PO 6, PSO1						
CO4	Understand and participate in handling issues related to individual behavior and inter-personal behavior	PO2, PO1, PO7, PSO3						

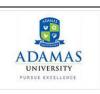
		Management Knowledge	Problem Solution	Leadership and Organization Skills	Ethics	Environment and Sustainability	Life-long Learning	Creativity and Innovation	Prepare basic knowledge, skills, tools and techniques to enable them to take up higher studies and research	Development of entrepreneurial skills	Develop competencies to be socially responsible business professionals.
Course Code	Course Title	PO1	PO2	PO3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3
OBH11002	Behaviour al Science	3	3	-	-	-	-	-	3	-	3

1=weakly mapped

2= moderately mapped

3=strongly mapped

Enrolment No:



Course: OBH11002 – Behavioural Science

Program: BBA Time: 03 Hrs. Semester: II Max. Marks: 50

Instructions:

Attempt All Questions from Section A (Each Carrying 2 Marks); any Four Questions from Section B (Each Carrying 5 Marks). Any Two Questions from Section C (Each Carrying 10 Marks).

	SECTION A (Answer All Questions)		
1.	What do you understand by the term 'Organizational Behaviour'?	Remembering	CO1
2	How does interpersonal relationship influence team performance?	Understanding	CO1
3	What is Self-actualization? Give example.	Remembering	CO2

4	What is the difference between Group and Team?	Remembering	CO1
5	Comment on the relation between employee behavior and organizational effectiveness.	Remembering	CO1
	SECTION B (Attempt any Three Questions)		
1.	Discuss how the subjects of Psychology, Social Psychology and Sociology contribute to the study of Organizational Behavior.	Understanding	CO2
2	Compare Maslow's Need Hierarchy Model of motivation with Herzberg's Two Factor Theory of motivation.	Remembering	CO3, CO2
3.	Discuss the problems that may arise in the various phases of Group Development.	Understanding	CO 3
4.	Discuss the major factors that influence individual behavior in general.	Analyzing	CO3
	SECTION C (Attempt any Two Questions)		
1.	More Than a Paycheck	Applying	CO4
	Lakhan Gokhale was a trainer for a large builder of homes. Gokhale had been hired fresh from graduate school with a master's degree in English. At first, the company put him to write and revise company brochures and help in important correspondence at the senior level. Soon senior management officials noticed how well Gokhale worked with executives on their writing, and also made them feel more confident about it. The company moved Gokhale into its prestigious training department. The company's trainers worked with thousands of supervisors, managers, and executives, helping them learn everything from new computer languages to time management skills to how to get the most out of the workers on the plant floor, many of whom were unmotivated high school dropouts. Soon Gokhale was spending all his time giving short seminars on executive writing as well as coaching his students to perfect their memos and letters.		
	Gokhale's supervisor, Mira Aiyer knew that Gokhale was getting more money than many executives who had been with the company three times as long. Yet in her biweekly meetings with him, she could tell that he wasn't happy. When Aiyer asked him about it, Gokhale replied that he was in a bit of a rut. He had to keep saying the same things over and over in his seminars, and business memos weren't as interesting as the literature he had		

been trained on. But then, after trailing off for a moment, he blurted out, "They don't need me!" Since the memos filtering down through the company were now flawlessly polished, and the annual report was 20 percent shorter but said everything it needed to, Gokhale's desire to be needed was not fulfilled.

The next week, Gokhale came to Aiyer with a proposal: What if he started holding classes for some of the floor workers, many of whom had no future within or outside the company because many could write nothing but their own names? Aiyer took the idea to her superiors. They told her that they wouldn't oppose it, but Gokhale couldn't possibly keep drawing such a high salary if he worked with people whose contribution to the company was compensated at minimum wage. Gokhale agreed to a reduced salary and began offering English classes on the factory floor. At first only two or three workers showed up. Gokhale believed that they only wanted an excuse to get away from work. But gradually word got around that Gokhale was serious about what he was doing and didn't treat the workers like kids in a remedial class.

At the end of the year, Gokhale got a bonus from the vice president in charge of production. Although Gokhale's course took workers off the job for a couple of hours a week, productivity had actually improved since his course began, employee turnover had dropped, and for the first time in over a year, some of the floor workers had begun to apply for supervisory positions. Gokhale was pleased with the bonus, but when Aiyer saw him grinning as he walked around the building, she knew he wasn't thinking about his bank account.

Case Questions: [5+5=10 Marks]

- A) What need theories would explain why Lakhan Gokhale was unhappy despite his high income?
- B) What do you think might have led to improvement in productivity and fall in employee turnover after Gokhale started offering English classes to the floor workers?
- 2.Critically examine the relationship between expectancy,
instrumentality and valence according to Vroom's ExpectancyApplyingCO4

	Theory of Motivation.		
3.	Discuss relevance of JOHARI Window in self-analysis and self-	Creating	CO4
	development. Give an illustration to explain.		

Course Code ID	P14001	Inter-Disciplinary Project	LI	ΓР	C					
Version 1.0				-	3					
Pre-requisites	/Exposure	Knowledge of Basic English								
Co-requisites		Knowledge of Basic Computer Skills								
Course Objectives	 This course will develop a student's knowledge of and appreciation for the interdisciplinary nature of knowledge and learning importance and value of integrating knowledge and perspectives fr multiple disciplines as a means to evaluating and understanding complex topics, problems, issues, phenomena, and events competencies learned during the educational process and to apply 									
CourseOutcom es	Upon succe CO1. r CO2. u various CO3. d CO4. r	npetencies in a real-world application ssful completion of the course, students will be a ecognize the unique advantages of integrative res nderstand the fundamentals of research methods academic disciplines emonstrate an understanding of current issues a ealize the importance of ethics in research proces nderstand the inter-disciplinary systems of resea	search s and p nd con	oractio	ces of					
Typical Progress Roadmap	 After discussion with the Project Advisor(s), each student shallprep an initial outline of their assigned project indicating the major section of discussion, list the principal research sources for each section, ar explain the overall objective of the project, including a justification the interdisciplinary nature of the work. Each student shall meet with the Project Advisor(s)regularly as per weekly Time-Table. Other meetings may be scheduled at the discree of the Project Advisor(s) at mutually agreed upon timings. Typically, the progress will include a combination of industrial and academic mentoring, self study sessions, case studies, trend studies presentation by students, interactive sessions, industrial visits etc. Regular submission of progress reports shall be required of each 									
Mode of Evaluation	tim Students w end of the p	dent-group as notified through the Project Advisc e. ill be evaluated by team participation and a team project. Interactive & continuous, task/assignmen gy will be applied for the course.	prese	ntatio	on at the					

EVS11109	Environmental studies	L	Т	Р	C
Version 1.1	Contact Hours – 30	2	0	0	2
Pre-requisites/Exposure					
Co-requisites					
Academic year	2020-21				

Course Objectives:

- 1. To impart basic knowledge about the environment and its problem.
- 2. To create awareness and concern about environmental resources protection.
- 3. To feel connected to the intrinsic relation between humans and environment, our position in the ecosystem around us.
- 4. To make the students familiar with the good civic practices and policies pertaining to environment.
- 5. Understanding multidimensional complex nature of environmental problems and policies.
- 6. To motivate students for active participation in minimizing the environmental damage caused due to our action.

Course Outcomes

On completion of this course the students will be able to:

CO 1: Distinguish between various types of ecosystems, ecosystem dynamics, perceive and appreciate the surrounding nature.

CO 2: Feel connected with the intrinsic relation between humans and environment, our position in the ecosystem around us, and importance of biodiversity.

CO 3: Comprehend the presence of various pollutants, their significance, and impacts, and develop the underlying concepts involved in various air pollution prevention and mitigation measures.

CO 4: Understand the basic science which can explain the phenomena occurring around us.

CO 5: Build the in-depth knowledge about natural resources including energy resource.

CO 6: Understand the legal framework in our country for safeguarding the environment including pollution prevention, control, management, and wildlife management.

Course Description:

We can survive without everything except food, which includes fuel and other nutrients and oxygen. For these two basic requirements, we must depend on our environment. But, over exploitation of resources, polluting the media around us, has resulted in environmental backlashes of both global and local scales. We are going through the sixth mass extinction event, the Holocene Extinction, which makes studying this subject as a compulsory course even more relevant, to develop the students into responsible citizens of the future.

Course content

Unit I: Fundamentals of Environmental studies

Multidisciplinary nature of environmental studies; scope and importance; need for public awareness; concept of sustainability and sustainable development

Unit II : Natural Resources

Renewable and non-renewable resources; Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forest and tribal people, Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems, Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies, Land resources: Land as a resource, land degradation, soil erosion and desertification, Energy Resources: renewable and nonrenewable energy resources, fossil fuel types and their environmental impact, solar, wind, hydropower, biomass energy and geothermal energy

Unit III: Ecosystems& Biodiversity

Concept of an ecosystem, Structure and function of an ecosystem, Producers, consumers and decomposers, Food chains, food webs and ecological pyramids, Energy Flow

Levels of Biodiversity: genetic, species and ecosystem diversity, Values of biodiversity, India as a mega-diversity nation, Biodiversity hotspots, Threats to Biodiversity, In-situ and Ex-situ conservation of Biodiversity

Unit – IV:Environmental Pollution

Environmental pollution: types, causes, effects and controls; Air, water and noise pollution, Pollution case studies

Unit – V: Global Issues and Environmental Policies

Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents. Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements: Montreal and Kyoto protocols and Convention

on Biological Diversity (CBD).

Unit –VI: Human Population and the Environment

Human population growth: Impacts on environment, human health and welfare. Environmental movements: Chipko, Silent valley, Environmental ethics: Role of Indian and other religions and cultures in environmental conservation. Sustainable development, Water conservation, rain water harvesting, watershed management; its problems and concerns. Environmental communication and public awareness, case studies; Swachh Bharat Mission

Te	Text Books:					
1.	Principles of Environmental Science, 4 th edition by Cunningham, W.P. and Cunningham,					
	M.A. (2002), Tata McGraw-Hill Publishing Company, New Delhi					
2.	Basic Environmental Engineering & Elementary Biology by MonidranathPatra and Rahul					
	Kumar Singha, Aryan Publishing house					

(2 hrs)

(5hrs)

(5 hrs)

(8hrs)

(5hrs)

(5 hrs)

3.	Introduction to Environmental Engineering and Science, by Masters, G.M., Prentice Hall
	of India, Second Indian Reprint.
Re	ference Books:
1	Wastewater Engineering: Treatment and Reuse, 4 th Edition, Metcalf and Eddy, Inc.
	McGraw-Hill, Inc., New York, 2002
2	Environmental Engineering", Howard S. Peavy, Donald R. Rowe and George
	Tchobanoglous, McGraw-Hill Education (India) Private Limited, New Delhi
3	Introduction to Environmental Engineering, 2 nd Ed. by Davis, M. L. and Cornwell D. A.
	McGraw Hill, Singapore.
4	Environmental Sciences: The Environment and Human Impact by Jackson, A.R.W. and
	Jackson, J.M., , Longman Publishers

Modes of Examination: Assignment/Quiz/Project/Presentation/Written Exam Examination Scheme:

Components	Internal	Mid Term	End Term
Weightage (%)	30	20	50

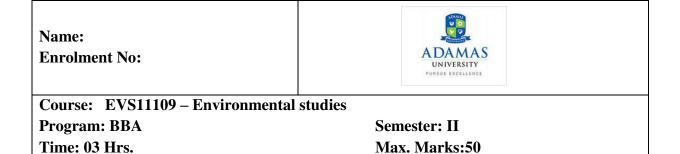
Mapping betw	een COs and POs	
	Course Outcomes (COs)	Mapped Programme Outcomes
CO1	Distinguish between various types of ecosystems, ecosystem dynamics, perceive and appreciate the surrounding nature.	PO4, PO5
CO2	Feel connected with the intrinsic relation between humans and environment, our position in the ecosystem around us, and importance of biodiversity.	PO4, PO6
CO3	PO5, PO7	
CO4	PO6	
CO5	Build the in-depth knowledge about natural resources including energy resource.	PO6
CO6	Understand the legal framework in our country for safeguarding the environment including pollution prevention, control, management and wildlife management.	PO4, PO5

Course Code	Course Title	Management Knowledge	Problem Solution	Eadership and Organization Skills	Ethics PO4	Environment and Sustainability	: Life-long Learning	Creativity and Innovation	Development of entrepreneurial skillsand spirit.	Develop competencies to be socially responsible business professionals
EVS11109									 	
EV311109	Environmental Studies				3	3	3			

1=weakly mapped

2= moderately mapped

3=strongly mapped



Instructions:

Attempt any **five questions** from **Section A** (Each Carrying 2 Marks); any **four questions** from **Section B** (Each Carrying 5 Marks). Any **two question from Section C** (Carrying 10 Marks).

	SECTION A (Answer any five questions) $(5 \times 2 = 10)$					
1.	What information about any ecosystem are conveyed by ecological pyramids?	Analysing	CO1			
2.	What is ecological succession?	Remembering	CO1			
3.	What is the importance of healthy DO levels in water?	Understanding	CO3			

4.	Mention few problems associated with large dams?	Applying	CO2
5.	What are the different types of wind turbine?	Remembering	CO5
6.	What is "fossil fuel"? Provide examples.	Remembering	CO4
SE	CTION B (Attempt any four questions) (4 x 5 = 20)		
1.	Name any two important indoor air pollutants? What is the full form of PAH and POP? What are point and non-point sources of air pollution. Give examples. $(1+1+3=5)$	Remembering	CO3
2	What is salinity? What is the unit of salinity? How can aquatic ecosystems be classified based on their salinity? (1+1+3=5)	Understanding	CO4
3.	Differentiate between habitat and niche. What is an ecotone and why is it significant? Give an example of an ecotone. $(2+2+1=5)$	Understanding	CO1
4.	Describe the distribution of water resources.	Remembering	CO2
5.	Discuss the importance of forest resources.	Evaluating	CO5
SE	CTION C (Attempt any one question) $(2 \times 10 = 10)$		
1.	Describe the chronology of development of the silent valley movement.	Remembering	CO6
2.	How does hydroelectricity get produced in hydroelectric power plant? What are the advantages and disadvantages of hydroelectric energy? (5+5=10)	Understanding	CO5

ENG11052	Business English II	L	Т	Р	C
Version 1.0	Contact Hours-30	2	0	0	2
Pre-requisites/Exposure	Basic Knowledge of English Language				
Co-requisites	-				

Course Objectives

- 1. To help the second language learners develop the ability to understand spoken language.
- 2. To enable students communicate with clarity and precision at workplace.
- 3. To give the students a perspective to appreciate life in its variables by exposing them to comprehension texts; and also to enrich their word power.
- 4. To enable students acquire structure and written expression required for their profession.

Course Outcomes

On completion of this course, the students will be able to

- CO1. Demonstrate a better understanding of the communication process by identifying, explaining, and applying current communication theories
- CO2. Comprehend the complexities inherent in the grammatical aspects and complex nuances of the language
- CO3. Develop a greater awareness of features of the speech stream, to be able to comprehend different accents and to be familiar with the various theoretical aspects of listening
- CO4. Acquire fluency in spoken aspect of business communication and speak in an impromptu manner
- CO5. Demonstrate a comprehensive and cohesive acquisition of writing skills (along with its necessary sub-skills) in formal and functional contexts

Course Description

This is a continuation of Business English II. Like the previous course, this course too focuses on improving LSRW skills, i.e. listening, speaking, reading and writing. Students will not only learn how to communicate effectively, but also equip themselves with professional skills, which will help them to be more job-ready and industry-friendly. Classroom activities will be designed to encourage students to play an active role in the construction of their own knowledge and in the design of their own learning strategies. We will combine traditional lectures with other active teaching methodologies, such as group discussions, cooperative group solving problems, analysis of video scenes and debates. Class participation is a fundamental aspect of this course. Students will be encouraged to actively take part in all group activities and to give an oral group presentation. Students will be expected to interact with media resources, such as, web sites, videos, DVDs, and newspapers etc.

Course Content

Unit 1: Communication:	8 Hrs
a) Theories of Communication	
Symbolic Interaction Theory, Social Penetration Theory,	High Culture-Low
Culture Context	
b) Models of communicationUnit II: Grammar and Syntax:a) Kinds of sentences	8 Hrs
b) Phrases and Clauses	
c) Conjunctions and participles	
d) Degrees of comparison	
e) Subject-verb agreement	
f) Narration	
Unit III: Reading and Listening skills:	8 Hrs
a) Types of reading	
b) Pronunciation skills	
c) Barriers to effective listening	
d) Reading and listening exercises	
Unit IV: Speaking skills	8 Hrs
Group Discussion, Small skits, Role play, Interview	
Unit V: Writing Skills	8 Hrs
Email, Minutes, Memo /Notice, Letter writing	

Text Books

T1. Kaul Asha. Effective Business Communication. PHI Learning Pvt Ltd. 2014.

T2. Wren and Martin. High School Grammar And Composition. S. Chand, 1995.

T3. Lewis, Norman. Word Power Made Easy. Anchor: 2014.

T4. Riordan, Daniel G & Pauley Steven A. : Technical Report Writing Today. 2004.

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination Examination Scheme:

Components Mid Term		Class Assessment	End Term
Weightage (%)	20	30	50

	Mapping between COs and Pos							
	Course Outcomes (COs)	Mapped Program Outcomes						
CO1	Demonstrate a better understanding of the communication process by identifying, explaining, and applying current communication theories	PO6						
CO2	Comprehend the complexities inherent in the grammatical aspects and complex nuances of the language	PO6 PO7 PSO1						
CO3	Develop a greater awareness of features of the speech stream, to be able to comprehend different accents and to be familiar with the various theoretical aspects of listening	PO3 PO6						
CO4	Acquire fluency in spoken aspect of business communication and speak in an impromptu manner	PO2 PO3 PO7						
CO5	Demonstrate a comprehensive and cohesive acquisition of writing skills (along with its necessary sub-skills) in formal and functional contexts	PO3 PO5						

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Course Code	Course Title	0d Management Knowledge	Problem Solution	Ecadership and Organization Skills	Ethics b0d	Environment and Sustainability	0d Life-long Learning	Creativity and Innovation	Prepare basic knowledge, skills, tools and techniques to enable them to take up	Development of entrepreneurial skills and spirit.	Develop competencies to be socially responsible business professionals.
ENG11052	Business English II	-		3	-	-	3	3	-	_	-

1=weakly mapped 2= moderately mapped 3=strongly mapped

Model Question Paper

Nam	e:									
Enro	Enrolment No: ADAMAS UNIVERSITY PURBUE EXCELLENCE									
D	Course: ENG11052 BUSINESS ENGLISH – II Program: BBA Time: 03 Hrs.									
-	Program: BBA Time: 03 Hrs. Semester: II Max. Marks: 50									
Atte	ructions: mpt any Four Questions from Section A (each carrying 5 marks); any Three Section B (each carrying 10 marks).	e Quest	tions							
	Section A (Attempt any Five)		1							
1.	Define primary and secondary stress with suitable examples. (Re)	5	CO3							
2.	Discuss any five features of Schramm's Model of Communication. (Re)	5	CO1							
3.	 Change the following sentences into indirect speech: (Ap) a) I said to the girl, "When does the next train come in?" b) The spectators said, "Bravo! Well played, Pankaj." c) The Students said, "How tough the paper is!" d) The teacher said to the class, "I shall prove now that the earth moves round the sun." e) Rahul said, "Let me have some tea." 	5	CO2							
4.	How is Interactive model of communication different from other models of communication? (Un)	5	CO1							
5.	How should you prepare for an online interview? (Un)	5	CO4							
6.	What are the different types of sentences? Illustrate with examples. (Re)	5	CO1							
	SECTION B									
8.	What is the significance of voice quality in speaking? How can you develop it? (Ap)	10	CO1							
9.	Discuss the etiquettes that are to be followed while appearing for a job interview. (Un)	10	CO4							
10.	Write a short paragraph (in not more than 500 words) on Importance of language in marketing. (Ap)	10	CO5							
11.	How do you plan an oral presentation? Discuss the steps involved in it. (Ap)	10	CO4 CO5							

Course Code- EIC11001	Venture Ideation	L	Т	Р	С			
Version 2.0		2	0	0	2			
Pre-requisites/Exposure	Basic knowledge of English and computer applications							
	such as Internet Explorer and MS Office							
Co-requisites								

Course Objectives

- 1. To help the students understand the way to be an Entrepreneur
- 2. To identify the right business opportunity
- 3. To empower students to perform a technical feasibility study and thereby developing a prototype
- 4. To help students in identifying their customers using primary and secondary research methods.
- 5. Expose students to various factors of market and competition with the help of market feasibility study, forecasting techniques, business model canvass and insights about financial statements.
- 6. To prepare students with finalizing their entrepreneurial Portfolio

Course Outcomes

On completion of this course, the students will be able to:

- CO1. Assess personal capacity in the context of the entrepreneurial process
- CO2. Assess characteristics of successful entrepreneurs and entrepreneurial forms and processes
- CO3. Apply resources, research and tools for Entrepreneurial ventures
- CO4. Analyze and apply opportunity identification techniques, feasibility terminology, processes and models
- CO5. Develop Ideation and planning documents for entrepreneurial venture

Catalog Description

Over the last decade, the core of our economy has been transitioning from one of industrial might, large monolithic corporations and mass production towards one of networks, flexible enterprises comprising many smaller units and unique value. This new economy is based on innovation originating in creativity and design; it is also disrupting long-standing and established employment patterns and bringing to the fore the importance of entrepreneurship. This core unit will bring together creativity, design and entrepreneurship at the conceptual and more practical level. It aims to explore the nature, determinants and consequences of creativity, design and entrepreneurship as well as the interaction between them.

Course Content

Unit 1. Introduction

Preview of the Course, Introduction to the Course, Guest Lecture with U.S. Secretary of Commerce Penny Pritzker – Meaning of Innovation, Entrepreneurial opportunities, Factors influencing the feasibility of an innovation, Innovation strategy: technologypush or market-pull, Product-market fit, How to develop a business model, Walkthrough of the business model canvas, Welcome to Innovation for Entrepreneurs: From Idea to Marketplace.

6 hours

Unit 2. Customer Discovery and Validation

Customer types, Customer archetypes, Customer segments and business models, Customer segments, value propositions, product features, value mapping, interviewing customer, insights of your customers.

Unit 3: Product Understanding and Marketing.

Customer value, The DNA of customer-centricity, Crossing the chasm, Qualitative and quantitative marketing research, importance and methods of market segmentation, Focusing on the target market, Beyond the chasm, Strategic implications of beyond the chasm, E-commerce: The internet as a selling platform.

Unit 4. Prototyping and Testing.

Planning for prototyping, Rapid prototyping and development, Lean startup MVPs, Choosing a wire framing/UX prototyping tool, Anatomy of an experience map, What you'll learn from user testing, Analytics and insight, Troubleshooting your customer discovery, Levels of a product/service.

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination

Examination Scheme:

Components	Continuous Assessment (course era)	Summative Assessment (Video pitch for a business venture concept, Business model for a start-up using theories on creativity, design and entrepreneurship.)
Weightage (%)	50 %	50 %

Relationship between the Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs)

CO/PO	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO1	PSO2
,														
C01	-	-	-	-	-	2	-	-	-	-	2	-	-	-
CO2	-	-	-	-	-	3	-	-	-	-	3	-	-	-
CO3	-	-	-	-	-	3	-	3	-	-	3	-	-	-
CO4	-	-	-	-	-	2	-	3	-	-	3	-	-	-
CO5	-	-	-	-	-	3	-	3	-	-	2	-	-	
Average	-	-	-	-	-	2.6	-	3	-	-	2.6	-	-	
1=Weakly mapped 2=				= Mod	Moderately mapped				3=Strongly mapped					

6 hours

6 hours

6 hours



	100									
FAC1		Financial Accounting L T	P C							
Versio			0 4							
	quisites/Exposure	Basic knowledge of Accounting								
Co-ree	quisites									
		Course Objectives								
01	This course will enable the students to prepare accounting records for partnership firms in case of admission, retirement and death.									
02	This course will enable the students to prepare accounting records for partnership firms in case of dissolution.									
03	_	dents in preparing accounting records for consignment.								
04	This course will enable the students to understand the difference between hire purchase and installment payment system and also do accounting for the same.									
05	This course will enable the	students to prepare branch and departmental accounts.								
		Course Outcomes								
On con	npletion of this course the st									
CO1		s for partnership firms in case of admission, retirement and death	1.							
CO2	Prepare accounting records for partnership firms in case of dissolution.									
CO3	<u> </u>	and accounting treatment for consignment.								
CO4	Understand the difference between hire purchase and installment payment system and also do									
	accounting for the same.									
CO5	Prepare branch and depart									
		Course Description								
		treatment of partnership firms in the event of admission, retiren								
	-	the accounting treatment needed in case of dissolution of a partr	-							
	-	ments relating to consignment and hire purchase. It also covers	branch							
and de	partmental accounting.									
		Course Contents								
Unit-	1		(15 L)							
		tal & Current account; Guarantee - by firm, by partner and								
	** *	vith retrospective effect. Change in constitution of firm – change								
		tirement cum admission – treatment of Goodwill, revaluation of								
		on of books), treatment of reserve and adjustment relating to c	apital;							
	ent of Joint Life Policy, Dear		(7 T)							
Unit-			(5 L)							
consid	-	counting for dissolution of firm – Insolvency of one or more p ad private liabilities; Piecemeal distribution – surplus capital								
Unit-			(5 L)							
Unit-			(* 1)							

invoice pr	rice, Val	ic features; difference with sales; Recording in the books of C uation of unsold stock; Ordinary commission, treatment and v cial commission; Del credere commission (with and witho	aluation of abnormal &						
Consignm	Consignment Debtors A/C, Recording in the books of Consignee								
Unit-4	4 Hire purchase and Installment payment system (10 L)								
Meaning;	differen	ce between Hire purchase and Installment payment system; Rec	ording of transactions in						
the books	s of buy	yer - allocation of interest -use of Interest Suspense a/c -	- partial and complete						
repossessi	ion in th	e books of seller – Stock and Debtors a/c (with repossession)	in the books of seller –						
H.P. Trad	ing a/c (with repossession) - Operating and Financial Lease (basic conce	pt only).						
Unit-5	Branch	and Departmental Accounts	(13 L)						
Branch: D	Depender	t branches - Stock and Debtors system -Distinction between whether the stock and the system -Distinction between whether the system and the s	nolesale profit and retail						
profit - In	depende	nt branch (including foreign branches).							
Departme	ntal acco	ounts: Concept, difference between Branch and Department, obj	ectives of preparation of						
departmer	ntal acco	unts - apportionment of common costs; Preparation of Depart	mental Trading and P/L						
account, (Consolid	ated Trading and P/L account; inter-departmental transfer of g	goods at cost, cost plus,						
and at sell	ling price	e - Elimination of unrealized profit.							
Suggestee	d Readir	ngs:							
Text Boo									
		nerjee, Financial Accounting, Volume II, TMH							
	-	, Financial Accounting, Kalyani Publishers, New Delhi							
		wal, Advanced Accounting, S. Chand, New Delhi							
Reference									
	•	A. Murthy, Financial Accounting, Margham Publications							
	•	d Mukherjee, Financial Accounting Volume I, Oxford Publ	ication						
		nerjee, Modern Accountancy, Volume II,TMH							
7. Arora,		pathi and Brinda, Financial Accounting, Taxmann Publicat							
	Mode	s of Examination: Assignment/Quiz/Project/Presentation/Wi	ritten Exam						
		Examination Scheme:							
Compor		Internal Mid Term	End Term						
Weightag		30 20	50						
	Relation	nship between the Course Outcomes (COs) and Program Ou	tcomes (POs)						
		Mapping between COs and Pos							
		Course Outcomes (COs)	Mapped Program Outcomes						
	CO1 Prepare accounting records for partnership firms in case of admission, retirement and death.								
CO2	CO2 Prepare accounting records for partnership firms in case of dissolution.								
CO3	Underst	PO2, PO4, PO5							
CO4	Underst	tand the difference between hire purchase and installmen	^t PO2, PO4, PO5						
	÷ •	t system and also do accounting for the same.							
CO5	Prepare	e branch and departmental accounts.	PO1, PO2						

			Holistic overview on Trade and Commerce	Expertise in Accounting and Management Accounting	Specific Trade and Commerce practices	Knowledge on BIFS	Analytical skills for Decision Making and Research
Course Code	Course Title		PO1	PO2	PO3	PO4	PO5
FAC11005	Financial	Accounting	2	3	2	2	2
1=Weakly mapped 2=Moderately		y mapped		3=Strong	ly mapped		

BAN13002 SQL

Course Structure:

Unit 1: Basic Concepts

- Microsoft SQL Server
- What is SQL?
- What are Relational Databases?

Unit II: The Graphic User Interface

- Object Explorer
- Query Window
- Results Grid
- Options

Unit III: The Code

- Basic Clauses
- Field and Table Aliases
- Creative use of Aliases
- Inner Table Joins
- Aggregations
- Distinct Records
- Text Criteria & Operators
- Wildcard Filters

Course Outcome for BAN11002

CO- BAN11002 -1	The course will help to impact knowledge on different terminology in SQL
CO- BAN11002 -2	Students should be able to identify the basics of different components of SQL
CO- BAN11002 -3	It will help to understand the SQL process
CO- BAN11002 -4	The course can help the students to implement SQL in business.

Suggested Readings:

SQL QuickStart Guide: The Simplified Beginner's Guide to Managing, Analyzing, and Manipulating Data With SQL by Walter Shields

Course Code ID	P14001	Inter-Disciplinary Project	LI	ΓР	C			
Version 1.0				-	3			
Pre-requisites	/Exposure	Knowledge of Basic English						
Co-requisites		Knowledge of Basic Computer Skills						
Course Objectives	 inte imp mul con con 	 importance and value of integrating knowledge and perspectives fro multiple disciplines as a means to evaluating and understanding complex topics, problems, issues, phenomena, and events competencies learned during the educational process and to apply the 						
CourseOutcom es	Upon succe CO1. r CO2. u various CO3. d CO4. r	npetencies in a real-world application ssful completion of the course, students will be a ecognize the unique advantages of integrative res nderstand the fundamentals of research methods academic disciplines emonstrate an understanding of current issues a ealize the importance of ethics in research proces nderstand the inter-disciplinary systems of resea	search s and p nd con	oractio	ces of			
Typical Progress Roadmap	 an i of d exp the Eac wee of the Typ aca pression Reg 	 After discussion with the Project Advisor(s), each student shallprepa an initial outline of their assigned project indicating the major section of discussion, list the principal research sources for each section, and explain the overall objective of the project, including a justification of the interdisciplinary nature of the work. Each student shall meet with the Project Advisor(s)regularly as per t weekly Time-Table. Other meetings may be scheduled at the discretion of the Project Advisor(s) at mutually agreed upon timings. Typically, the progress will include a combination of industrial and academic mentoring, self study sessions, case studies, trend studies, presentation by students, interactive sessions, industrial visits etc. 						
Mode of Evaluation	tim Students w end of the p	dent-group as notified through the Project Advisc e. ill be evaluated by team participation and a team project. Interactive & continuous, task/assignmen gy will be applied for the course.	prese	ntatio	on at the			

SOC14100	Community Service	L	Т	Р	С
Version 1.0		-	-	-	1
Pre-requisites/Exposure	Knowledge of Basic English				
Co-requisites	Knowledge of Basic Computer Skills				

Course Objectives

- 1. To familiarise the students on the concept'giving back to the society'.
- 2. To familiarize the students on the issues faced by marginalized communities.
- 3. To provide an experiential platform to the students on any one or two issues as an internship.

Course Outcomes

On completion of this course, the students will be able to

CO1: Understand the concept of social responsibility through an internship.

CO2: Acquire hands on experience in 'giving back to the society' through the concept of social responsibility through an internship.

Catalog Description

Along with Intelligent Quotient, it is important for students to enhance their Emotional Quotient as well. The Social Internship offers opportunity to the student to be empathetic towards social issues facing our society. To help and support the affected community / cause through a field internship is the essence of the course in 'giving back to the society'.

Course Content

Unit I:

Introduction to the course. A brief on social issues facing the society with both global and Indian examples.

Unit II:

Minimum 24 hours of field work on a social issue and helping the marginalized / affected community / cause with photographs and testimonies.

Unit III:

Submission of individual reflection on the social service rendered.

The benefits that accrue to the students are

A.) Subjective

- 1. Psychosomatic benefits: Volunteering increases overall life satisfaction and also helps to relive stress and acts as an anti-depressant.
- 2. Intellectual benefits: Enhances knowledge through new experiences, and develops communication skills.
- 3. Career benefits : Enhances career prospects by acquisition of work-related skills, builds good references for employers and provides a forum to network with future

potential employers. It also The experience allows gained helps students to take up leadership positions. Letters of recommendation can also be easily sought. Research shows that students who indulge in volunteer word perform better in studies as it invigorates their passion for learning

- 4. Personal benefits : Real world skills like leadership, problem-solving, collaboration with others, time management and communication skills, learn patience and empathy.
- 5. Connect learning to real world and enables deeper and lifelong learning.

B.) Community

1. Collective benefits: Strong interpersonal bonds are created, and leads to increased civic and social awareness and responsibility.

Further Reading :

- 1. Tadevosyan, Gohar &Schoenhuth, Michael. Participatory Research Approach : Principles, Challenges and Perspectives. <u>http://ysu.am/files/01G_Tadevosyan_M_Schoenhuth.pdf</u>
- 2. Bergold, Jarg& Thomas Stefan. Participatory Research Methods: A Methodological Approach in Motion <u>http://www.qualitative-research.net/index.php/fqs/article/view/1801/3334</u>

Plan of Work

- 1. Reading on social issues facing the society with both global and Indian examples.
- 2. Selecting an issue where the student wishes to contribute and wants to make a difference.
- 3. Areas The internship may be broadly completed by getting in touch with NGO in your city / town / Police / Municipal Corporation / Local Gram Panchayat / Hospital / State Health Department / Women & Child Development Centre / CSR departments of Corporates /school / Old Age Home / Orphanage / Literacy Drive / Aanganwadi Centres / etc.
- 4. **Online Discussion** Through discussion, students elaborate their preferred area of work with reference to the Global Scenario and India. Reason for choosing that area also needs and resources of the people in their area of Social Internship and also submit the testimonials, which include signature of the authority where students initiated their work, or the signature of the authority in whose area students are currently working or photographs of work (photographs must include students working).
- 5. **Final Report Submission** Submission of the Testimonials include signatures of the authorities you have worked with, or the signature of the authority in whose area you have worked or photographs of your work (photographs must include you working). Students' accomplishment in their area of operation along with the major successes student experienced and major challenges faced.
- 6. Students will submit the complete elaborated report along with testimonials and completion certificate in the form of signed Template
- The registration for all students will open twice, during winter and summer breaks. They may enroll for the internship in either of the two breaks.
- The student will have to submit a continuous record of their 10 to 15 days internship in the form of photographs and testimonies (wherever required).

Mode and Scheme of Online Evaluation:

Modes of Evaluation: Online – Quiz / Assignment / Discussions / Case Studies Examination Scheme:

Components	MSE	MSE III	ESE
	(Discussion + Initiating Internship Template)	(Detailed Assignment – Report Submission + Testimonials Photograps/Videos) Student Experience Sharing Video	
Weightage (%)			

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

	Mapping between COs and POs					
	Course Outcomes (COs)	Mapped Program Outcomes				
C01	Understand the concept of social responsibility through an internship.	P06, PS03				
CO2	Acquire hands on experience in 'giving back to the society' through the concept of social responsibility through an internship.	PO6, PSO3				

		Management Knowledge	Problem Solution	Leadership and Organization Skills	Ethics	Environment and Sustainability	Life-long Learning	Creativity and Innovation	Prepare basic knowledge, skills, tools and techniques to enable them to take up	Development of entrepreneurial skills and spirit.	Develop competencies to be socially responsible business professionals.
Course Code	Course Title	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
SOC14100	Community Services	-	-	-	-	-	3	-	-	-	3

FAC11007	Financial Management	L	Т	Р	С
Version 1.1	Contact Hours - 60	3	1	0	4
Pre-requisites/Exposure	Understanding basic financial terms				
Co-requisites					
Academic year	2020-21				

Course objectives:

- 1. Provide an in-depth view of the process in financial management of the firm
- 2. Develop knowledge on the allocation, management and funding of financial resources.
- 3. Improving students' understanding of the time value of money concept and the role of a financial manager in the current competitive business scenario.
- 4. Enhancing student's ability in dealing short-term dealing with day-to-day working capital decision; and also longer-term dealing, which involves major capital investment decisions and raising long-term finance

Course Outcomes

On completion of this course, the students will be able to:

CO1: Explain the concept of fundamental financial concepts, especially time value of money

CO2: Apply capital budgeting projects using traditional methods.

CO3: Analyze the main ways of raising capital and their respective advantages and disadvantages in different circumstances

CO4: Integrate the concept and apply the financial concepts to calculate ratios and do the capital budgeting

Course Description:

Finance considers the requirements for financial information both external and internal to the organisation and the role of finance professionals as key players in a dynamic and everchanging business environment, encompassing key decisions and the fundamental principles of Business. Classroom activities including lectures, discussions and case studies (topped up with role play) will be designed to encourage students to get involved, absorb and assimilate inputs. These activities will also be supplemented by group discussions, cooperative group solving problems, live projects, analysis of video cases and debates. Class participation is a fundamental aspect of this course. Students will be encouraged to actively take part in all group activities and to give an oral group presentation. Students will be expected to interact with media resources, such as, web sites, videos, and newspapers etc.

Course Structure

Unit 1: Nature of Financial Management

Finance and related disciplines; Scope of Financial Management; Profit Maximization, Wealth Maximization - Traditional and Modern Approach; Functions of finance - Finance Decision, Investment Decision, Dividend Decision; Objectives of Financial Management; Organization of finance function; Concept of Time Value of Money, present value, future value, and annuity.

Unit 2: Risk & Return

Historical return, expected return, absolute return, holding period return, annualized return, arithmetic & geometric return; Risk - Systematic & unsystematic risk - their sources and measures.

Unit 3: Long -term investment decisions

Capital Budgeting - Principles and Techniques; Nature and meaning of capital budgeting; Estimation of relevant cash flows and terminal value; Evaluation techniques - Accounting Rate of Return, Net Present Value, Internal Rate of Return & MIRR, Net Terminal Value, Profitably Index Method.

Unit 4: Concept and Measurement of Cost of Capital

Explicit and Implicit costs; Measurement of cost of capital; Cost of debt; Cost of perpetual debt; Cost of Equity Share; Cost of Preference Share; Cost of Retained Earning; Computation of over-all cost of capital based on Historical and Market weights. Capital Structures: Approaches to Capital Structure Theories - Net Income approach, Net Operating Income approach, Modigliani-Miller (MM) approach, Traditional approach, Capital Structure and Financial Distress, Trade-Off Theory.

Unit 5: Dividend Policy Decision

Dividend and Capital; The irrelevance of dividends: General, MM hypothesis; Relevance of dividends: Walter's model, Gordon's model; Leverage Analysis: Operating and Financial Leverage; EBIT -EPS analysis; Combined leverage.

Unit 6: Working Capital Management

Management of Cash - Preparation of Cash Budgets (Receipts and Payment Method only); Cash management technique, Receivables Management - Objectives; Credit Policy, Cash Discount, Debtors Outstanding and Ageing Analysis; Costs - Collection Cost, Capital Cost, Default Cost, Delinquency Cost, Inventory Management (Very Briefly) - ABC Analysis; Minimum Level; Maximum Level; Reorder Level; Safety Stock; EOQ, Determination of Working Capital.

Text Book(s):-

1. Financial Management by I M Pandey (Vikas Publication)

Reference Book(s):-

10L

10L

10L

10L

10L

10L

- 1. Bhalla, V.K. (2009). Financial Management. New Delhi: Anmol Publications
- 2. Brealey, R. R., Myers. S., Allen, F., & Mohanty, P. (2009). Principles of corporate finance (8th ed.). New Delhi: Tata Mc-Graw Hill.
- 3. Brigham, E F., & Davis, P. (2009). *Intermediate financial management* (10th ed.). USA: South Western.
- 4. Brigham, E. F., & Houston, J. F. (2007). Fundamentals of *financial Management* (11th ed.). USA: Thomson.
 Chandra, P. (2008). *Financial management* (7th ed.). New Delhi:
- Mc-Graw Hill
- 6. Hickman, K. A., Hunter, H. O., & Byrd, J. W. (2008). *Foundations of corporate finance* (2nd ed.). USA: South Western.
- 7. Horne, V. (2008). Fundamentals of financial Management (12th ed.). New Delhi: Pearson Education.

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination **Examination Scheme:**

Components	Mid Term	Attendance	Class Assessment	End Term
Weightage (%)	20	00	30	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping b	between COs and Pos	
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Explain the concept of fundamental financial concepts, especially time value of money	PO1, PO 2
CO2	Apply capital budgeting projects using traditional methods.	PO1,PO2, PO3, PO 7, PSO1
СО3	Analyze the main ways of raising capital and their respective advantages and disadvantages in different circumstances	PO2, PO4, PO 7, PSO1
CO4	Integrate the concept and apply the financial concepts to calculate ratios and do the capital budgeting	PO1, PO6, PO7

Course Code	Course Title	G Management Knowledge	Problem Solution	Equation Skills Economic Skills	Ethics	Environment and Sustainability	90d : Life-long Learning	Creativity and Innovation	knowledge, skills, to	and techniques to enable them to take up	Development of entrepreneurial skills	\sum_{ω}^{Z} Develop competencies to be socially responsible business professionals.
FAC11007	Financial Management	3	3	-	-	-	-	3	3		-	

1= weakly mapped

2= moderately mapped

3=strongly mapped

	me: rolment No:	UNIVERSITY PURSUE EXCELLENCE	5	
Co	urse: FAC11007– Financial Mana	gement		
Tiı	ogram: BBA me: 03 Hrs.		emester: III Iax. Marks: 50	
Att Sec	structions: tempt All Questions from Section A ction B (Each Carrying 5 Marks). A Marks).	• •		
SE	CTION A (Answer All Questions)			
1.	Write down the formula for PVIFA	and FVIFA.	Remembering	CO1
2	A project costs Rs.4000 and the ca are 2000 and 2500. If the discoun Present Value (NPV) of the project.	•	Understanding	CO1
3	Define profitability index. Give an e	example.	Remembering	CO2
4	Define debt equity ratio, working ca	pital ratio, interest coverage	Remembering	CO1

	ratio and Quick ratio.		
5	How do you calculate return of an equity share?	Remembering	CO1
	SECTION B		
1.	Initial outlay of a project is Rs.1, 00,000 and it can generate cash inflow of Rs.40000, Rs.30000, Rs.50000 and Rs.20000 for the next 4 years. Assume a 10% rate of interest, calculate the profitability index.	Understanding	CO2
2	Find the effective rate of interest when the nominal rate of interest is 12% compounded yearly, semi-annually, quarterly and monthly.	Understanding	CO1
3.	You buy a house of Rs. 5 lakhs and immediately make a cash payment of Rs. 1 lakh. You take a loan for the balance amount at 12% for 20 years. How much is the annual instalment?	Analyzing	CO3
4.	An investment will see a return of Rs.2000 at the end of each year for the next 3 years and Rs.1000 at the end of each year from year 4 to 7. What is the investment amount at the beginning if the required rate of return is 13%?	Analysing	CO3
	SECTION C (Attempt any Two Questions)		
1.	Suppose a firm is expecting a perpetual net operating income of Rs.150 crore on assets of Rs.1500 crore which are entirely financed by equity. The firm's equity capitalization rate is 10%. The firm is considering to substitute the equity capital by issuing perpetual debentures of Rs.300 crore at 6% interest rate. The cost of equity is expected to increase to 10.56%. The firm is also considering raising perpetual debentures of Rs.600 crore and replacing equity. The debt-holders will charge interest of 7% and the cost of equity will rise to 12.50% to compensate shareholders for higher financial risk. Calculate the a) total value of the firm for all three scenarios b) WACC in all these three scenarios c) Draw the cost of capital graph explaining all three stages (increasing, optimum and declining value).	Applying	CO4
2.	A project costs Rs40,000.Its stream of earnings before depreciation, interest and taxes (EBDIT) from 1 to 5 years is expected to be Rs.10000,Rs.12000,Rs.14000,Rs.16000 and Rs.20000. Assume a 50% tax rate and depreciation on straight line basis, calculate the project's Accounting rate of return. ?	Applying	CO4

3.	A project costs Rs.16000 and is expected to generate cash	Creating	CO4
	inflows of Rs.8000, Rs.7000 and Rs.6000 at the end of each		
	year for next 3 years. Find the internal rate of return (IRR) of		
	the project.		

OBH11012	Human Resource Management	L	Τ	P	C
Version 1.0	Contact Hours - 60	3	1	0	4
Pre-requisites/Exposure	Understanding of the general principles of management				
Co-requisites	Understanding of Organization Behaviour and Business				
	Communication				
	2020-2021				
Academic Year					

Course Objectives:

The objective of the course is to educate the student such that he/she understands:

- 1. To enable the students to understand the HR management and system at various levels in general and in certain specific industries or organizations.
- 2. To help the students focus on and analyse the issues and strategies required to select and develop manpower resources.
- 3. To develop relevant skills necessary for application in HR related issues.
- 4. To enable the students to integrate the understanding of various HR concepts along with the domain concept in order to take correct business decisions.

Course Outcome:

On completion of this course the students will be able to:

CO 1: Discuss the concept of human resource management and its relevance in organizations.

CO2: Develop necessary skill set for application of various HR issues.

CO3: Analyse the strategic issues and strategies required to select and develop manpower resources.

CO4: Examine the knowledge of HR concepts to take correct business decisions.

Course Description:

This course provides an overview of Human Resources Management, including an historical perspective of HR, strategies for designing HR activities, and the roles and responsibilities of HR professionals. It is a prerequisite to all upper-level HR classes for majors. This course provides an introduction to the various functions of human resource management, including job analysis, job evaluation, staffing, recruitment and selection, labour relations, planning, labour welfare, human rights legislation and employment equity.

Course Contents:

Unit I: Introduction to Human Resource Management: Definition and Concept, Features, Objectives, Functions, Process, Scope of Human Resource Management, Importance of Human Resource Management, Human Resource Practices. [10 L]

Unit II: HRM and Personnel Management: Concept of Personnel Management, Personnel Management in India, Functions of the Labour Welfare Officer, Difference Between Personnel Management and HRM. [10 L]

Unit III: Human Resource Planning: Concept of Human Resource Planning (HRP), Factors in HRP, Process of HRP. [10 L]

Unit IV: Job Analysis and Design: Job Analysis, Job Description, Writing a Job Description, Job Specification, Job Design - Various Approaches. [10 L]

Unit V: Recruitment: Concept of Recruitment, Factors Affecting Recruitment, Types of Recruitment; **Selection:** Concept of Selection, Process of Selection, Selection Tests, and Barriers in Selection. [10 L]

Unit VI: Selective Cases on the above topics. [10 L]

Suggested Readings:

Text Book(s):-

T1: Aswathappa, K.: Human Resource Management, Text & Cases, McGraw Hill (India), New Delhi.

T2: Bhattacharya, D.K.: Human Resource Management.

T3: SubbaRao, P.: Essential of HRM and Industrial Relations.

T4: Memoria, C.B.: Personnel Management.

Reference Book(s) & other resources:-

1. Monappa, Arun: Managing Human Resource.

2. Monoppa & Saiyadain: Personnel Management, Tata McGraw Hill, New Delhi.

3. Patnayak, Biswajeet: Human Resource Management, Ed. 3rd, 2006, PHI, New Delhi.

4. Armstrong, Michael: A handbook of HRM practice, Kgan Page Limited, London.

5. Rao, VSP: Human Resource Management: Text and Concept, Excel Books, New Delhi.

Modes of Examination: Assignment/Quiz/Project/Presentation/Written Exam

Examination Scheme:

Components	Internal	Attendance	Mid Term	End Term
Weightage (%)	30	00	20	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

	Mapping between COs and Pos				
	Course Outcomes (COs)	Mapped Program Outcomes			
C01	To develop the understanding of the concept of human resource management and to understand its relevance in organizations	PO3, PO2, PSO1			

CO2		To develop necessary skill set for application of various HR issues.							• •	PO1,PO2, PO3, PO 6, PSO2			
CO3		analyse the str develop manpo	-			strateg	ies rec	luired	to sele	ect P	PO2, PO4, PO 3, PSO1		
CO4		integrate the iness decisions.		edge	of HR	conc	epts t	o take	e corre		PO4, 1 PO7, 1		
			Management Knowledge	Problem Solution	Leadership and Organization Skills	Ethics	Environment and Sustainability	: Life-long Learning	Creativity and Innovation	Prepare basic knowledge, skills, tools and techniques to enable them to take up	Development of entrepreneurial skillsand spirit.		
Course Code		Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1	PSO 2	PSO3	
OBH11	012	Human Resource Management	-	3	3	3	-	-	-	3	3	-	

1=weakly mapped 2= moderately mapped 3=strongly mapped

	me: rolment No:		ADAMAS UNIVERSITY PURSUE EXCELLENCE		
	Course: OBH11012	Human Resourc	e Managen	ient I	
Pro	ogram: BBA	Semes	ster: III		
	ne: 03 Hrs. structions:	Max. N	Marks: 50		
	empt All Questions from Section A (•••	•	-	
	c tion B (Each Carrying 5Marks). Any rks).	Two Questions fr	om Sectior	C (Each Carryir	ng 10
	SECTION A	A (Answer All Que	estions)		
1.	What is managerial judgement meth	od?		Remembering	CO1

2	Why manpower planning is important for any organization?	Remembering	CO1
3	Define the concept selection?	Remembering	CO1
4	What do you understand by job design?	Remembering	CO1
5	Explain the concept of succession planning?	Understanding	CO2
	SECTION B		
1.	Define the role of HR manager in an organization. Elucidate your answer with suitable examples.	Remembering	CO2
2	What is the difference between personnel management and HRM? Explain your answer.	Remembering	CO1
3.	Suppose HR planners estimate that because of several technological innovations your company will need 25 percent fewer employees in three years. What actions would you take today?	Understanding	CO2
4.	Briefly define the difference between external and internal sources of recruitment in any company. Elucidate your answer with examples.	Remembering	CO3
	SECTION C (Attempt any Two Questions)		
1.	Read the case carefully and solve the questions. Vishal Components Limited manufactures a wide range of automotive components. It has a workface of 1500 including 250 supervisors and executives. Performance appraisals of these employees are being carried out annually. The parameter used for performance appraisal is sense of responsibility, superiors' dependability on subordinates, initiative, regularity and punctuality, community activity and potential for development to take higher positions. All these factors are given equal weight age .the performance appraisal has three objectives: to grant annual increment, to determine promotability and to assess training needs. In the year 2010-11, some supervisors and executives were not given any increment because as per performance appraisal, their total scores were below standard. The overall low scores were due to community activity and potential for development which were given equal weightage along with other factors. On the stoppage of annual increment, the aggrieved supervisors and executives represented their case to the managing director of the company and contended that the entire performance appraisal system was faulty. They were very much against the inclusion of community activity and potential for development in the performance appraisal meant for giving pay raise. They argued that all aggrieved supervisors and executives should be given regular annual increments and time- bound promotions .The system would be more objective, air and free from undue biases.	Applying	CO4

	Questions		
	(a) As human resource manager, how will you defend the existing performance appraisal system of the company?(b) Will you like to incorporate changes, if any? If yes, what would be these changes and why?(c) Should there be separate appraisal criteria for appraising supervisors and executives? If yes, where are such differences needs? What actions should be taken to the representation made by the aggrieved supervisors and executives?		
2.	(a) Critically examine the importance of Delphi Technique resolution technique?(b) Do you think training and development programmes are essential at all levels of management? Justify your answer with proper illustrations.	Analysing	CO3
3.	Read the case carefully and solve the questions. The personnel office of Prashant Chemicals limited informed the middle managers through a circular that a group of consultants would be calling on them later in the week to provide training on team building. The consultants would be emphasizing on how to develop team work and to build inter group relationships throughout the Company. The information also contained the approach to be adopted by the consultants and explained the five-step process of team building: problem sensing, examining differences, giving and receiving feedback, developing interactive skills, and follow up actions. The circular also included a note on the utility of team building in organizational effectiveness. On receiving the circular, middle managers, felt tensed as they though team building as an exercise involving a lot of hocus-pocus as they experienced in sensitivity training exercises in which participants used to attack each other and let out their aggression by heaping abuse on those disliked. Therefore, the managers felt that the consultants were not needed for team building. One of the managers commented, 'now that as we understand what is involved in team building, we can go ahead and conduct session ourselves. All we have to do is to choose a manager who is liked by everyone and put him in the role of change agent/ consultant. After all, you really do not need high priced consultants to do team building stuff. You just have a good feel for human factor'. The other managers generally agreed. However, the corporate personal director turned down their suggestion and proceeded with his original programme of hiring consultants. Questions (a) Why did middle managers show resistance to team building approach of organization development? (b) Do you think the managers had accurate view of team	Applying	CO4

	building concept and role of external consultant in that?	
	(c) Did corporate personnel office sell the concept of team	
	building and its usefulness properly to middle managers? What	
	actions should the department have taken?	
1		



OLS11001	Supply chain Management		Т	Р	С
Version 1.0	Contact Hours - 60	3	1	0	4
Pre-requisites/Exposure	Basic understanding of business operation and distributions				15
Co-requisites					

Course Objectives:

- 1. This course would help students develop an understanding about the role of supply chain management in business.
- 2. Distribution and supply chain functions, key issues of supply chain and the drivers of supply chain performance.
- 3. This course would also give exposure to the students with basic concepts of supply chain management for cost effective functioning of the business.
- 4. To provide basic knowledge of information technology application in supply chain management.

Course Outcomes

On completion of this course, the students will be able to:

CO1. Understanding the basic fundamentals of logistics and supply chain management.

CO2. Recognise the importance of inventory and its planning.

CO3. Need for warehousing, network of warehouses, and distribution centres.

CO4. Importance of transportation and its role in logistics and supply chain management.

CO5. Awareness of information technology and its application in supply chain management.

Catalogue Description:

Over the last six decades, the discipline of business logistics has advanced from the warehouse and transportation dock to the boardroom of leading global companies. Supply chain and logistics management encompasses the development and fundamental of the logistics discipline within a supply chain structure. Logistics includes all the activities required to move product and information to, from, and between members of a supply chain. The supply chain provides the framework for businesses and their suppliers to jointly deliver goods, services, and information efficiently, effectively, and relevantly to customers. Supply chain and logistics management presents the mission, business processes, and strategies needed to achieve integrated logistical management. Classroom will be interactive and encourage students to take part in the class activities. This course is designed to include



conventional lecture sessions with other modern teaching techniques such as case study, class assignments, continuous evaluation tests, and presentation on live company based case.

Course Content:

15 Lecture Hours

Introduction to Logistics and Supply Chain Management: Scope and Components of Logistics; Logistics and Marketing; Logistics Planning, Principles and focus Areas; Supply Chain Drivers and Obstacles; Demand Management and Forecasting in a Supply Chain and Supply Chain Integration.

Unit II:

Unit 1:

Managing Inventory: Inventory Planning; Managing Inventory in a Supply Chain; Factors Driving Inventory; Category and Types of Inventory; Inventory Classifications; ABC Inventory Analysis; Inventory Costs; Inventory control and functions.

Unit III:

Warehousing: Purpose and Reasons of Warehousing; Network of Warehouses; Distribution Centres; Market Positioning; Production Positioning; Intermediate Positioning.

Unit IV:

Transportation: Transportation Principles; Network Design and Selection Criteria; Relative Merits Analysis; Costs Factors; Customer Service Factors; Reverse Logistics; Advantages & Disadvantages of all forms of Logistics

Unit V:

10 Lecture Hours

Information Technology: Basic concept of information technology, Enterprise Resource Planning, Application of information technology in supply chain management.

Reference Books:

1. Janat Shah, Supply Chain Management, Pearson

2.V.V. Sople, Supply Chain Management, Pearson

3. K. Shridhara Bhat, Logistics and Supply Chain Management, e/2018, Himalaya Publishing House

4. Donald J Bowersox, David J Closs & M Bixby Cooper, Supply Chain Logistics Management, e/2019, Tata McGraw Hill education

10 Lecture Hours

10 Lecture Hours

15 Lecture Hours



Modes of Examination: Assignment/Quiz/Project/Presentation/Written Exam

Examination Scheme:

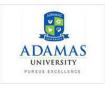
Components	Internal	Attendance	Mid Term	End Term
Weightage (%)	30	00	20	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

	Mapping between COs and POs	
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Understanding the basic fundamentals of logistics and supply chain management.	PO1, PO2
CO2	Recognise the importance of inventory and its planning.	PO1,PO2, PO3, PSO1
CO3	Need for warehousing, network of warehouses, and distribution centres.	PO1, PO2, PO3, PO4, PO5, PO4,
CO4	Importance of transportation and its role in logistics and supply chain management.	PO1, PO5, PO7, PSO2
CO5	Awareness of information technology and its application in supply chain management.	PO11, PO12

		Management Knowledge	Problem Solution	Leadership and Organization Skills	Ethics	Environment and Sustainability	Life-long Learning	Creativity and Innovation	Prepare basic knowledge, skills, tools and techniques to enable them to take up	Development of entrepreneurial skills and snirit	Develop competencies to be socially responsible business professionals.
Course Code	Course Title	Р О 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PS O 2	PSO 3
OLS1100 1	Supply chain management	3	2	2	1	1	3	-	1	1	3

1=weakly mapped



2= moderately mapped 3=strongly mapped

Model Question Paper

Name: Enrolment No:			AS Y Y
Program: BBA Semester: III	Course: OLS11001 Sup	ply Chain M	lanagement Time: 3 Hrs. Max. Marks: 50
	questions from Section A (eac ach carrying 10 marks). Sectio Section A (Atte	on C is Comp	pulsory (carrying 10 marks).
1.	What is the importance of supply chain management in a business organisation?	2	CO1
2.	What are the components of logistics management?	2	CO2
3.	What is the requirement of inventory management for a manufacturing enterprise?	2	CO4
4.	What is market positioned warehouse?	2	C03
5	How ERP can be used for effective supply chain management?	2	C05
6	What is ABC analysis in inventory classification?	2	CO4
	SECTION B		
7.	What is supply chain integration? Explain the process of integrating supply chain management for a firm for efficient operation.	10	CO2



8.	Explain the transportation selection criteria for a firm keeping in view all the necessary factors in mind.		CO4
9.	What is value chain? How a firm can optimise primary and supportive activities to earn profit? Explain with diagram.	10	CO1
	SECTION C is Compulsory		
10.	Case Study on Distribution and IT	10	CO3 and CO5

OLS11002	PRODUCTION AND OPERATIONS	L	Т	Р	C
Version 1.0	MANAGEMENT Contact Hours - 60	3	1	0	4
Pre-requisites/Exposure	Basic Calculation Skills	1			1
Co-requisites					
Academic Year	2020-21				

Course Objectives

- 1. To understand the basic concepts and theories of production management.
- 2. To gain a deeper insight of production management, planning and quality assurance.
- 3. To expand individual knowledge of production management principles and practices.
- 4. To apply operations management concepts and their influence on business decisions.

Course Outcomes:

On completion of this course, the students will be able to:

- CO1. Discuss the fundamental concepts of Production and Operations Management.
- CO2. Recognize the different techniques in Production Planning and Control.
- CO3. Evaluate the importance of work-motion study and plant/facility layout.
- CO4. Illustrate quality assurance in production and operations management.

Course Description:

Production and Operations Management deal with the processes that transform the inputs of an organization into final goods (or services) through a set of defined, controlled and repeatable policies. This course emphasizes the concepts and practices of managing production and operations in contemporary organizations. This course provides an introduction to the field of production and operations management. The course is designed to highlight the practical and applied techniques which can improve the organization's overall quality and productivity. All the lectures contain a blend of discussions on basic theories and advanced topics, focusing on practical implementation of knowledge. Classes will be conducted by lecture as well as power point presentation as per requirement. The tutorials will familiarize the students with practical problem-solving techniques. Students will be able to gain a strong understanding of the course via theoretical sessions, case study discussions, problem solving and discussions with the coordinator.

Course Structure:

Unit I: 15 L

Introduction of Production Management: Production Management, Productivity, Capital Productivity, Labour Productivity, Personnel Productivity, Training.

Introduction to Operations Management: Introduction, Operations Management and Strategy, Tools for Implementation of Operations, Industry Best Practices.

Unit II 15 L

Product Planning and Control: Production Planning and Control –Models, Process Planning, Aggregate Planning, Scheduling, Data Encryption, Cryptography, Public key, Private key, Computer network- concept, LAN, WAN, Intranet, Extranet, Strategic use of Internet, WWW in marketing.

Unit III 20 L

Work, Motion Study and Plant Layout: Work Study, Motion Study, Work Measurement, Work Sampling, Work Environment, Relationship between Time & Motion Study to work study.

Facility or Layout Planning and Analysis: Introduction, Objectives of Layout, Classification of Facilities, Basis for Types of Layouts, Why Layout decisions are important, Nature of layout problems, Redesigning of a layout, Evaluating Plant Layouts, Assembly Line Balancing, Material handling, Symptom of material handling, Objectives and principles of material handling, Types of material handling equipment.

Unit IV 10 L

Quality Assurance: Quality Assurance, Acceptance Sampling, Statistical Process Control, Total Quality Management, Maintenance Management, Towards TQM, ISO 9000 as a Platform, Working with Intranet, Total Productive Maintenance (TPM), Kaizen , JIT.

Text Books:

- 1. S.A.Kumar, N. Suresh, Production and Operations Management (With Skills Development, Caselets and Cases), New Age International Publishers.
- 2. P. Rama Murthy, Production and Operations Management, New Age International,
- 3. L.C. Jhamb, Production & Operation Management, Everest Publication
- 4. R.S. Russel, B.W. Taylor, Operations Management Creating Value Along The Supply Chain, John Wiley & Sons Inc.

Modes of Examination: Assignment/Quiz/Project/Presentation/Written Examination Examination Scheme:

Components Mid Term		Attendance	Class Assessment	End Term	
Weightage (%)	20	00	30	50	

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

	Mapping between COs and POs	
	Course Outcomes (COs)	Mapped Program Outcomes
C01	Discuss the fundamental concepts of Production and Operations Management.	PO1, PO2, PO5, PO6, PSO1, PSO3
CO2	Recognize the different techniques in Production Planning and Control.	PO1, PO2, PO4, PO5, PSO1
CO3	Evaluate the importance of work-motion study and plant/facility layout.	PO1, PO2, PO3, PO5, PO6, PO7, PSO1, PSO2
CO4	Illustrate quality assurance in production and operations management.	PO1, PO2, PSO1

		Management Knowledge	Problem Solution	Leadership and Organization Skills	Ethics	Environment and Sustainability	Life-long Learning	Creativity and Innovation	Prepare basic knowledge, skills, tools and techniques to enable them to take up higher studies and research.	Development of entrepreneurial skills and spirit.	Develop competencies to be socially responsible business professionals.
Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1	PSO 2	PSO3
OLS11002	Production and	3	3	1	1	2	2	1	2	1	1

Operations					
Management					

1= weakly mapped

2= moderately mapped

3=strongly mapped

Name:

Enrolment No:



Course: OLS11002 – Production and Operations Management Semester: III **Program: BBA** Max. Marks: 50

Instructions:

Time: 03 Hrs.

Attempt All Questions from Section A (Each Carrying 2 Marks); any Four Questions from Section B (Each Carrying 5 Marks). Any Two Questions from Section C (Each Carrying 10 Marks). GEGELONIA

	SECTIO	ON A (Answer All Questions)		
1.	What is the difference between P	Remembering	CO1	
2	Compare and contrast between P	Understanding	CO2	
3	A worker while working durin assigned to him or remains idle following table shows that out of 45 working observations and five State of Worker Working Idle Based on the data provided, for time of the worker.	Analysing	CO3	
4	What do you understand by JIT?		Remembering	CO4
5	What are the different types of cr	yptographic algorithms?	Remembering	CO1
	SECT		•	
1.	strategies that you need to ta	planning? What are the different ke when demand needs to be hat are the different strategies that	Remembering	CO2

	need to be demand?	used to increase or de	ecrease capacity	to match current		
2	the compa locks for n The produc of a networ	pany specializes in do ny focuses on manu- nultiple brands includi- ction line used to prod- rk system; the steps are	facturing pin tuing Union, Yale uce padlocks is e shown in the T	umbler and lever e and Multi-Lock. a perfect example Table below.		
	Activity	Description	Immediate	Duration		
			Predecessor	(Hours)		
	A	Receiving	-	0.5		
		raw materials				
	В	Bolt Cutting	А	1.0		
	С	Transfer	В	1.5		
		Machines (for			-	
		drilling and				CO2
		cutting			Remembering	001
		operations)			Creating, Applying, Remembering	
	D	Transfer	В	1.4		
	D	Machines	D	1.4		
	-	(barrels)		2		
	E	Insert Shackle	C,D	2		
	F	Packaging of	E	1.2		
		padlock				
3.	Q2. Identif Q3. What i A new hea in Delhi. T	the network diagram by the critical path. is the maximum time n althcare facility is targ the table below shows the tract along with the	eted to serve set the coordinates	even census tracts s for the centre of		
		ds. Customers will tra				
		the new facility wh	•			
	iocations b	being considered for the	-			•
		h and the sama the	C and E Dat "	la of govern a server		
	(7,2), whic	h are the census tracts				
	(7,2), which tracts, co-o	ordinate distances alor	ng with the po	pulation for each	Applving	CO3
	(7,2), which tracts, co-contracts, co-contracts	ordinate distances alor given below. If we us	ng with the po e the population	pulation for each n as the loads and	Applying	CO3
	(7,2), which tracts, co-contracts, co-contra	ordinate distances alor	ng with the po e the population	pulation for each n as the loads and	Applying	CO3
	(7,2), which tracts, co-contracts, co-contra	ordinate distances alor given below. If we us near distance, identify	ng with the po e the population	pulation for each n as the loads and	Applying	C03
	(7,2), which tracts, co-contracts, co-contra	ordinate distances alor given below. If we us near distance, identify	ng with the po e the population the location is	pulation for each n as the loads and	Applying	CO3
	(7,2), whic tracts, co-c centre are use rectilin total load-c	ordinate distances alor given below. If we us near distance, identify distance score? Census Tract	ng with the po e the population the location is (x , y)	pulation for each as the loads and better in terms of	Applying	CO3
	(7,2), whic tracts, co-c centre are use rectilin total load-c	ordinate distances alogiven below. If we us near distance, identify distance score?	ng with the po e the population the location is	pulation for each as the loads and better in terms of Population	Applying	C03

	4		D	(5, 2)	7		
	4 5		<u> </u>	(5, 2)	10		
			<u>Е</u> F	(8,5)			
	6		F G	(7, 2)	20		
4.			-	(9, 2.5) at is work sampli	14		
т.	A work sat for which observation workers w	mpling the v ns wer ere fou te accu	estimate the time A total of 720 observations the is 95% identify the proportion of	Remembering, Analysing	CO3, CO4		
		SECT	ION C (Attemp	ot any Two Que s	stions)		
1.	worldwide demand pa during the quarterly s	te. Its lin attern, e sum ales fo demano	ne of chocolate of with peaks durin mer months. Opercasts, evaluate d would be mor	candies exhibits and the winter mo Given the follo e whether (a) lev	in three factories a highly seasonal onths and valleys wing costs and rel production, or meet the demand	Evaluating	CO2
	for chocola	Qua		Sales For	ecast (lbs)		
		Spri			000		
		Summer 50,000			000		
		Fa	11	120	,000		
		Win	nter	150	,000		
	Hiring Cos Firing Cos Inventory of Regular pr Production	t = \$50 carryin oduction per er					
2.	The MS 8	300 ca		mbled on a con	veyor belt. Five	Applying	CO3
	hundred cars are required per day. Production time per day is 420 minutes, and the assembly steps and times for the wagon are given below. Identify the balance that minimizes the number of workstations, subject to cycle time and precedence constraints.						
	Task	<u>K</u>	Task Time (in seconds)	Description	Tasks that must precede		
	А		45	Position rear	-		

						T 1
			axle support			
			and hand			
			fasten			
	В	11	Four screws	А		
			to nuts			
	С	9	Insert rear	В		
	_		axle			
	D	50	Tighten rear	-		
			axle support			
	E	15	Position front	D		
			axle assembly	~		
	F	12	Fasten with	С		
			four screws to			
			nuts	~		
	G	12	Tighten front	С		
			axle assembly			
			screws			
	Н	12	Position rear	E		
			wheel 1 and			
	T	10	fasten hubcap			
	Ι	12	Position rear	E		
			wheel 2 and			
	т	0	fasten hubcap	E C II I		
	J	8	Position front	F, G, H, I		
			wheel 1 and			
	17	0	fasten hubcap	т		
	К	9	Position front	J		
			wheel 2 and			
2	Willing the second second		fasten hubcap		Densenations	CO1,
3.	•	•	Quality Manager		Remembering	CO1, CO4
			is the difference	-		
	-	•	the information g			
	the productivity	indices (labour	productivity, capi	tal productivity,		
	material product	ivity, energy pr	oductivity, total pr	oductivity, total		
	factor productivi			•		
	Output – Rs 100	00/-				
	Human Input – F	Rs 3000/-				
	Material Input –	Rs 2000/-				
	Capital Input – F	Rs 3000/-				
	Energy Input – F					
	Other Misc. Inpu					
	The values are in	terms of base	year rupee value.			

BAN11004	DATA PREPARATION FOR	L	Т	Р	C
	ANALYTICS				
Version 1.0	Contact Hours - 30	2	0	0	2
Pre-requisites/Exposure	Basic Calculation Skills				
Co-requisites					
Academic Year	2021-22				

Course Objectives

- 1. To understand the utility of data pre-processing for Data Analytics
- 2. To expand individual knowledge on different data manipulation techniques
- 3. To understand the various analysis techniques of processed data for decision making
- 3. To gain understanding of big data and associated analysis frameworks

Course Outcomes:

CO1: Understand concept and utility of data pre-processing

CO2: Gain knowledge on different data manipulation techniques

CO3: Gain expertise on various descriptive & inferential techniques of data analysis

CO4: Understand big data and it features

Course Description:

Global market demand reflects the growing pervasiveness of business reporting, predictive analytics and data visualization. This course will help participants learn Data Engineering which is at the core of Data Analytics journey. The course will provide exposure to participants on different data manipulation techniques, basic analytical techniques related to descriptive & inferential statistics and finally enable them to build basic predictive models from raw data. The course will also introduce the concept of big data and its associated analysis frameworks to the participants.

Course structure:

Unit 1: 4 Hours

Journey from raw data to processed data; various data pre-processing techniques; Merging Datasets- Joining & Appending; Concept of Primary Key and Foreign Key; Concept of Facts and

Dimensions; Master Tables and Transaction Tables; Tools used for Data Pre-processing, OSEMN Framework

Unit 2: 10 Hours

Concept of Data Cleaning and Data Manipulation; Removing Leading Spaces; Removing Duplicates; Missing Value Imputation; Sorting Datasets; Creating Primary Key in a dataset; Editing Time and Date Fields; Finding Outliers & Influential Points

Unit 3: 6 Hours

Basic Statistics- Measures of Central Tendency, Measures of Dispersion, Correlation, Scatter Plot; Concept of Quartiles & Outlier Detection; Introduction to Sampling, Estimation & Hypothesis Testing

Unit 4: 10 Hours

Linear Regression, Anova, Logistic Regression, Chi-Square Test

Suggested Readings:

- Business Statistics in Practice- Using Data, Modeling & Analysis: Bowerman, O'Connell & Murphree
- 2. Business Analytics- The Science of Data Driven Decision Making: U Dinesh Kumar
- 3. Statistics for Management: Levin & David S. Rubin

Project:

The class will be divided into Groups consisting of 5 members each. Each group will be given a dataset which will analyze one real life scenario. The Group will have to analyze the data and create reporting frameworks and dashboards learnt during the sessions. Each group will present before all student as a result all students should have an idea of different real life scenarios and how to analyze the data.

Modes of Evaluation: Quiz/Assignment/presentation/Written Examination Examination Scheme:

Components	Mid Term	Class Assessment	End Term
Weightage (%)	20	30	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

	Mapping between COs and POs	
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Understand concept and utility of data pre-processing	PO1, PO2, PO6, PO7, PO8, PSO1
CO2	Gain knowledge on different data manipulation techniques	PO1, PO2, PO6, PO8, PSO1, PSO2
CO3	Gain expertise on various descriptive & inferential techniques of data analysis	PO1, PO2, PO6, PO7, PO8, PSO1, PSO2
CO4	Understand big data and it features	PO1, PO2, PO3, PO6, PO7, PO8, PSO1, PSO2, PSO3

Course	Course Title	Domain Knowledge	Problem Solution	Leadership and Organization Skills	Ethics and Governance	Environment and Sustainability	Life-long Learning	Creativity and Innovation	Employability	Create capabilities of converting theoretical knowledge and data into practical applications with help of analytical tools and techniques.	Keep abreast of trans-disciplinary trends which can be brought to bear in creating strategic and tactical benefits in a VUCA world.	Develop competencies to be socially responsible business professionals.
Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	03
BAN11004	Data preparation for analytics	3	3	1	-	-	3	2	2	3	2	2

1= weakly mapped

2= moderately mapped

3=strongly mapped

BAN11005	INTERACTIVE QUERYING & BASIC REPORTING	_				
Version 1.0	Contact Hours - 30	1	0	2	2	
Pre-requisites/Exposure	Basic Calculation Skills					
Co-requisites						
Academic Year	2021-22					

Course Objectives

- 1. To understand the concept and utility of Business Reporting
- 2. To expand individual knowledge on Data Warehousing and Data Mining Processes
- 3. To install Tableau Public and know about its features and usability
- 3. To build widgets and interactive dashboards using Tableau

Course Outcomes:

CO1: Understand concept and utility of Business Reporting

CO2: Gain knowledge on Data Warehousing and Data Mining Proceses

CO3: Install Tableau and build interactive dashboards using data from various sources

CO4: Build reporting frameworks which results in real life problem solving

Course Description:

Global market demand reflects the growing pervasiveness of business reporting and data visualization. In 2019, data visualization was valued at \$9.06 billion and is projected to grow at a compound annual growth rate (CAGR) of 7.83% for a market size of \$15.35 billion by 2026. This course will help participants learn Tableau, the preferred tool for data visualization by many organizations across the world. After the course, the participants will be able to build interactive dashboards using Tableau.

Course structure:

Unit 1: 4 Hours

Concept of Business Reporting; Utility of Business Intelligence; Facts & Dimensions; Basic Database Scripting; Joining of Tables; OLAPs and Cubes; Root Cause Analysis

Unit 2: 10 Hours

What is data warehousing?; Data warehouses and data marts; Overview of the components; Metadata in the data warehouse; Need for data warehousing; Basic elements of data warehousing; trends in data warehousing; The Architecture of BI and DW; BI and DW architectures and its types; Relation between BI and DW; Data Miming task primitives; Integration of a Data Mining system with a Database or a Data Warehouse; Issues in DM; KDD Process; Data Pre-processing;

Unit 3: 6 Hours

Installing Tableau, Connecting to various data sources- excel files and csv files; Bins; Joining Tables; Data Blending; Basic Data Manipulation- Data Labels, Sorting, Add Totals/ Sub-totals/ Grand Totals; Tableau widgets- Area Chart, Bar Chart, Line Chart, Pie-Chart, Treemap, Scatter-Plot, Combo Charts, Word Cloud, Geo-maps, etc

Unit 4: 10 Hours

Advanced Reporting Concepts- Dual Axis Reports, Calculated Fields, Creating Filters, Conditional Filters, Slicing & Dicing of Data, Create a Dashboard, Formatting Dashboard Layouts

Suggested Readings:

- 1. Learning Tableau: Joshua N. Milligan
- Tableau Your Data! Fast and Easy Visual Analysis with Tableau Software: Daniel G. Murray
- 3. Practical Tableau: 100 Tips, Tutorials and Strategies from a Tableau Zen Master: Ryan Sleeper

Project:

The class will be divided into Groups consisting of 5 members each. Each group will be given a dataset which will analyze one real life scenario. The Group will have to analyze the data and create reporting frameworks and dashboards learnt during the sessions. Each group will present before all student as a result all students should have an idea of different real life scenarios and how to analyze the data.

Modes of Evaluation: Quiz/Assignment/presentation/Written Examination Examination Scheme:

Components	Mid Term	Class Assessment	End Term
Weightage (%)	20	30	50

	Mapping between COs and POs
	Course Outcomes (COs) Mapped Program Outcomes
CO1	Install and use Tableau for reporting and visualization purposes PO1, PO2, PO6, PO7 PO8, PSO1
CO2	Build widgets and charts for visualizing analysis resultsPO1, PO2, PO6, PO8 PSO1, PSO2
CO3	Build interactive dashboards using data from various sourcesPO1, PO2, PO6, PO7 PO8, PSO1, PSO2
CO4	Build reporting frameworks which results in real life problem solvingPO1, PO2, PO3, PO6 PO7, PO8, PSO1, PSO2, PSO3
	dge dge be be be siness

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Course		Domain Knowledge	Problem Solution	Leadership and Organization Skills	Ethics and Governance	Environment and Sustainability	Life-long Learning	Creativity and Innovation	Employability	Create capabilities of converting theoretical knowledge and data into practical applications with help of analytical tools and techniques.	Keep abreast of trans-disciplinary trends which can be brought to bear in creating strategic and tactical benefits in a VUCA world.	Develop competencies to be socially responsible business professionals.
Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 03
BAN11005	Interactive Querying and Basic Reporting	3	3	1	-	-	3	2	2	3	2	2

1= weakly mapped

2= moderately mapped

3=strongly mapped

Course Code MKT 11015	Marketing Management	L	Т	Р	С
Version 1.0	60 Hrs	3	1	0	4
Pre-requisites/Exposure	Basic knowledge of business and marketing is	use	ful		
Co-requisites					

Course Objectives:

- 1. To understand the basic concepts of marketing management
- 2. To understand the marketing environment
- 3. To learn about marketing process for different types of products and services
- 4. To understand the tools used by marketing managers in decision making

Course Content

Unit-I 12 Hrs

Marketing – scope, nature, definition, core marketing concepts, Selling vs. marketing; Marketing mix recent trends in marketing in India.

Consumer Behavior and Market Segmentation: Nature, scope, and significance of consumer behavior; Market segmentation -concept and importance; Targeting and positioning.

Unit-II 13 Hrs

Product: Concept of product, consumer, and industrial goods; Product planning and development. Product life cycle, New product development.

Price: Importance of price in the marketing mix; Factors affecting price of a product/service; pricing methods.

Unit- III 12 Hrs

Distributions Channels and Physical Distribution: Distribution channels – concept and role; Types of distribution channels;. Channel management decision, Channel design decision; Retailing and wholesaling; Transportation; Warehousing.

Unit-IV 13 Hrs

Promotion: Integrated marketing communication, Advertising, Sales promotion, Public relation, Direct Marketing, salesmanship, personal selling process.

Text Book(s):-

- 1. Ramaswamy Namakumari, Marketing Management, Mc GrawHill, 5th edn.
- 2. Kotler Philip and Armstrong Gary: Principles of Marketing; Prentice-Hall of India, New Delhi.
- 3. Stanton W.J., Etzel Michael J., and Walker Bruce J; Fundamentals of Marketing; McGraw-Hill, New York

Course outcome

		Mapped programme
		Outcome
CO1	Discuss the different components of marketing and its impact on	PO1, PO2
COI	business performance.	
CO2	Demonstrate product life cycle and new product development and	PO4,PO6, PSO1
COZ	pricing design in real market.	
CO3	Illustrate different design channel of distribution, pricing in	PO7, PO2, PSO1
COS	different products and modern retailing	
CO4	Design of promotional techniques for the firms in terms of	PO2, PO6, PSO1
C04	advertising and sales promotion.	

Course Code	Course Title	Dd Management Knowledge	Problem Solution	Ecadership and Organization Skills	Ethics Pod	Environment and Sustainability	90d : Life-long Learning	Creativity and Innovation	Prepare basic knowledge, skills, tools	and techniques to enable them to take up	Development of entrepreneurial skills and snirit	Develop competencies to be socially responsible business professionals.
MKT11015	Marketing	3	3			-	3	3	3		2 -	-
	Management	5	5	-	-		5	5				

Name:

Enrolment No:



Course: MKT11015– Marketing Management

Program: BBA Time: 03 Hrs. Semester: III Max. Marks: 50

Instructions:

Attempt All Questions from Section A (Each Carrying 2 Marks); any Four Questions from Section B (Each Carrying 5 Marks). Any Two Questions from Section C (Each Carrying 10 Marks).

	SECTION A (Answer All Questions)		
1.	Define concept of societal marketing	Remembering	CO1
2	Compare and contrast between marketing vs. selling.	Understanding	CO1
3	Define the term marketing environment?	Remembering	CO2
4	What are different 4Ps of marketing	Remembering	CO1
5	What do you mean by reference pricing	Remembering	CO1
	SECTION B		•
1.	Explain new product development concept? What are the different		
	stages of new product development (NPD) Process?	Understanding	CO2
2	a) How to design up and down sides of price-oriented strategy?	Remembering	CO3, CO2
3.	Illustrate pricing method with suitable examples.	Understanding	CO 3
4.	Analyse how the low- end mobile handset makers in India realised the limitations of their price-oriented strategy and started brand development	Analysing	CO3
	SECTION C (Attempt any Two Questions)		
1.	After introducing popcorn and Sundrop cooking oil, ITC Agrotech	Applying	CO4
	lauched wheat flour (atta) under the brand name Healthy world.		
	US based food products firm, Congra, has 51 percent stake in ITC		
	Agrotech. The vice president says, "We tool an Indian perspective		
	out of the Congra portfolio with relevance to local		
	palateHealthy World marks our entry into mass market		
	products."		

Priced at Rs 18.50 for 1 kg pack, Healthy World comes in packs ranging from 500 gm to 1 kg. ITC Agrotech claims that it spent nearly one year on R& D before launching Healthy World, benchmarking it against national players in the branded atta category, players like HUL (Annapurna), Pillsbury. There are several regional brand too. Parameters such as softness, taste, colour and texture preferences are said to have been looked into in detail before finalizing the variant. "Our research revealed that the preferences in the North and South in India differ distinctly across almost all parameters of atta. While creamish to white colour and finer size is preferred in the South, the North consumer is more discerning as far as taste goes," informs the marketing manager. Consumers in the South are more receptive to branded atta, but the North leads in consumption, where average monthly household consumption is 27 kg as against just 3 kg in the South. Conagra claims to be the largest miller in the US. ITC Agro took over the atta manufacturing portion of a partner in Chennai to streamline it in line with its parent company's manufacturing process. What will also help ITC Agro is the fact that it has established itself as a health conscious manufacturer with Sundrop. The distribution network is already in place. In fact, the Healthy World packs too leverage this with the image of the boy somersaulting (The Sundrop trademark) with the proclamation-"from the makers of Sundrop." The branded atta market is estimated to be in excess of Rs 350 crore, with category advertising spend of about Rs 20-25 crore. The theme line of Healthy World says, "More health. More Energy." a) Develop a sales promotion plan to encourage continued consumption of Health World in North India. b) How would you make your sales promotion competition proof?

	c) Examine the result of sales promotion in the above matter?		
2.	Discuss value philosophy of marketing and its application in Indian retail? Why do retailers develop their own private level brands?	Applying	CO4
3.	Design a product mix model a FMCG companies and describe its advantages and consequence in present market	Creating	CO4

PSG11021	Human Values and Professional Ethics	L	Т	Р	С
Version 1.0	Contact hours-30	2	0	0	2
Pre-requisites/Exposure					
Co-requisites					

Course Objectives

• To inculcate human values and professional ethics in students.

• To enhance the understanding of students towards personal, professional & societal relationships and achieve harmony in life.

• To develop moral responsibilities and ethical vision.

Course

Outcomes

At the completion of the course, the student should be able to:

CO1. Understand the importance of values, ethics, harmony and lifelong learning in personal and professional life

CO2. Apply the knowledge to perform self-exploration and transformation augmenting harmony, peace and positivity in the surroundings

CO3. Appreciate the core values that shape the ethical behavior of a professional

Catalog Description

This course aims to develop an understanding for a movement from rule based society to a relationship based society. Apart from teaching values, this course encourages students to discover what values are for them and for society. Self-exploration also enables them to critically evaluate their pre-conditionings and present beliefs. It is designed in a way where students get familiar with the Ethical Code of Conduct, Ethical Dilemma, Conflict of Interest and all this will help them eventually in their professional life.

Course Content

Unit I: Introduction to Human Values: Character, Integrity, Credibility, Mutual Respect, Dedication, Perseverance, Humility and Perception. Self-Assessment & Analysis, Setting Life Goals, Consciousness and Self-Transformation. Team Work, Conflict Resolution, Influencing and Winning People, Anger Management, Forgiveness and Peace, Morality, Conscience. Yoga and Spirituality

Unit II: Harmony and Life Long Learning: Harmony in human being, Nature and Existence. Harmony in family and society –Responsibilities towards society, Respecting teachers. Transition from School to College - Freedom & Responsibilities, Respecting Cultural Diversity, Learning beyond the Classrooms, Independent study and research

Unit III: Introduction to Professional Ethics: Work Ethics, Engineering Ethics, Moral Dilemma, Moral Development Theories, Ethical Theories- Kantinism, Utilitarianism, etc , Case Studies for Choice of the theory, Code of Ethics

Unit IV: Individual to Global Issues: Industrial Standards, A Balanced Outlook on Law, Safety, Responsibility, Rights, Confidentiality, Conflict of Interest, Occupational Crime, Whistle Blowing, Environmental Ethics, Business Conduct in MNC, E-Professionalism (IPR, Internet Ethics & Privacy issues)

Text Books

1. Shetty, Foundation Course in Human Values and Professional Ethics [R.R. Gaur, R. Sangal, G.P. Bagaria]

Modes of Evaluation: Quiz/Assignment/ Seminar/Written Examination Scheme:

Components	MSE I	MSE II	Quiz/Assignment/Seminars	ESE
		(Activity)	etc	
Weightage (%)				

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

	Mapping between COs and POs								
	Course Outcomes (COs)								
C01	Understand the importance of values, ethics, harmony and lifelong learning in personal and professional life	P08							
C02	Apply the knowledge to perform self-exploration and transformation augmenting harmony, peace and positivity in the surroundings								
CO3	Appreciate the core values that shape the ethical behavior of a professional	P08							

		Engineering Knowledge	Problem analysis	Design/development of solutions	Conduct investigations of complex	Modern tool usage	The engineer and society	Environment and sustainability	Ethics	Individual or team work	Communication	Project management and finance	Life-long Learning
Course	Course												
Code	Title	P01	PO2	PO3	PO4	PO5	P06	PO7	P08	P09	PO1 0	PO1 1	PO1 2
PSG11021													
	Values and Professional s ethics						2		1 & 3				

1=weakly mapped

2= moderately mapped

3=strongly mapped

Course Outcomes Assessment

This course strongly contributes towards the program outcomes 'Ethics (PO8)' and 'Life Long Learning (PO12)' moderately contributes towards the program outcome'The Engineer and Society (PO6)' and weakly contributes towards 'Environment and Sustainibility (PO7)'. The outcome will be measured by the performance of students in various class tests/assignments in addition to the End Semester Examination (ESE) that contains significant number of questions/activities, related to becoming a better human being and professional.

CLASS ACTIVITY/ASSIGNMENT SHEET

The following activities are provided as base guidelines. The teacher may go beyond these to attain

the desired course outcomes. CLASS ACTIVITY 1: SELF ANALYSIS

Introduce yourself. What are your goals in life? How do you set your goals in life? How do you differentiate between right and wrong? What have been your achievements and shortcoming in life? Analyse them.

CLASS ACTIVITY 2: SETTING GOALS

Short term goals and long term goals (discussing one's goals). How do we set our goal? How to handle

responsibilities which have to be fulfilled while working for

goals. CLASS ACTIVITY 3: HARMONY

Now-a-days, there is a lot of voice about many techno-genic maladies such as energy and natural

resource depletion, environmental pollution, global warming, ozone depletion, deforestation, soil

degradation, etc. – all these seem to be man-made problems threatening the survival of life on Earth

- What is the root cause of these maladies & what is the way out in your opinion?

On the other hand, there is rapidly growing danger because of nuclear proliferation, arms race, terrorism, criminalization of politics, large scale corruption, scams, breakdown of relationships, generation gap, depression & suicidal attempts, etc. – what do you think, is the root cause of these threats to human happiness and peace – what could be the way out in your opinion?

CLASS ACTIVITY 4: BIOGRAPHY

Read biography of a successful person in your field. Share his/her journey from start to fame. What characteristic traits and qualities made that person achieve success? How can you cultivate these attributes in yourself?

CLASS ACTIVITY 5: CASE STUDIES ON ETHICS

Provide Case Studies related to ethical issues to team of students and ask questions. The team will

need to discuss and then state the answers with justification. CALSS ACTIVITY 6: SELF EVALUATION The course is going to be over now. Evaluate your state before and after the course in terms of

- a. Thought
- b. Behavior
- c. Work

d. Realization

Do you have any plan to participate in the transition of the society after graduating from the institute? Write a brief note on it.

MODEL QUESTION

Course: VAL1723 - Human Values and Professional Ethics

Programme: UG All program Max. Marks:60 Instructions:

Semester: I Time: 03 hrs.

Attempt any **Four Questions** from **Section A** (each carrying 6 marks); any **Two Questions** from **Section B** (each carrying 10 marks). **Section C** is Compulsory (carrying 16 marks).

	SECTION A (Attempt any Four Questions)	
1.	What do you mean by happiness and Prosperity? Critically examine the prevailing notions of happiness in the society and their consequences.	[06]
2.	How do the current world views lead to contradictions and dilemmas in professional life? – Explain.	[06]
3.	What do you mean by 'Universal Human Order'?	[06]
4.	"Physical facilities are necessary and complete for animals, while they are necessary but not complete for humans." Comment.	[06]
5.	Why do you think that there should be emphasis on Life Long Learning in the current academic setting?	[06]
	SECTION B (Attempt any Two Questions)	
6.	Critically examine the issues in professional ethics in the current scenario. List any five unethical practices in profession today and the methods being tried to curb them.	[10]
7.	What are the implications of value based living at all four levels of living? Explain.	[10]
8.	Discuss the Basic Aspects and Characteristic Features of Kohlberg's Theory and Gilligan's Theory.	[10]
	SECTION C is Compulsory	
9.	Case Study	[8+8]
	VI HI FI Hose Company Anhydrous ammonia is used to fertilize the crops. The anhydrous ammonia reacts violently with water. Pressurized tanks provided with wheels carry this fertilizer, and tanks are pulled by tractors. Farmers take these tanks on rent. They take on rent or purchase the hose to carry this ammonia from the tank to perforated blades that dig into the soil and spread ammonia. Leaks from the hose are very dangerous. In the past, the hoses were made of steel-mesh reinforced rubber, which were similar to automobile tyres. Later, the reinforced-plastic hoses were introduced and they satisfied the standards. The VI HI FI has been marketing these hose to the farmers. The officials of the company arranged for testing the hose as a consultancy work in the Agricultural College. The tests indicated that the plastic did not react initially to the anhydrous	

ammonia. But over the years, the plastic was found to degrade and lose some mechanical properties. Hence, the company attached warnings on all the hoses, indicating that they should be replaced periodically.

After a few years of use of the product in the market, several accidents occurred where the hoses ruptured during use and severely injured and blinded the farmers. Legal action followed and the company argued in defense that the farmers had misused the hoses and not heeded the replacement warnings. But they have to make substantial out-of-court settlements. The company then dropped the product line and advertised in the press asking the farmers to turn-in their hoses for full refunds. The advertisement stated that the hoses are 'obsolete', and not that are unsafe.

(a) What are the factual, conceptual and normative issues?(b) What are the methods suggested for resolving these issues?

FAC11008	Cost and Management Accounting	L	Т	Р	С
Version 1.1	Contact Hours - 60	3	1	0	4
Pre-requisites/Exposure	Understanding basic terms related to finance.				
Co-requisites					
Academic year	2020-21				

Course objectives:

- 1. Provide an understanding of the ways in which management accountants can provide relevant information for a variety of decisions to be made in managing any organisation.
- 2. Develop ability to identify, use and interpret the results of costing techniques appropriate to different activities and decisions and formulate and use standards and budgets for planning and control purposes.
- 3. Improving student's ability to understand the role of responsibility accounting and performance measurement; understand the behavioural implications of performance measurement and transfer pricing systems in divisionalised businesses.
- 4. Enhancing the appreciation for the need to relate management accounting systems to contemporary thinking about organisational planning and control.

Course Outcomes

On completion of this course, the students will be able to:

CO1: Explain the fundamental purposes of cost and management accounting. As part of this learning, students will be able to appreciate the *use of different costs for different purposes*.

CO2: Apply traditional and contemporary approaches to cost allocation.

CO3: Analyze relevant information for decision making purposes in order to produce financial analyses for a range of decisions such as product-mix, pricing, outsourcing and special orders.

CO4: Integrate the concept of standard costs with other theories to prepare budgets for planning and control purposes.

Course Description:

The subject 'Cost and Management Accounting' is very important and useful for optimum utilisation of existing resources. These are branches of accounting and had been developed due to limitations of financial accounting. It is an indispensable discipline for corporate management, as the information collected and presented to management based on cost and management accounting techniques helps management to solve not only specific problems but also guides them in decision making. Classroom activities including lectures, discussions and case studies (topped up with role play) will be designed to encourage students to get involved, absorb and assimilate inputs. These activities will also be supplemented by group discussions, cooperative group solving problems, live projects, analysis of video cases and debates. Class participation is a fundamental aspect of this course. Students will be encouraged to actively take part in all group activities and to give an oral group presentation. Students will be expected to interact with media resources, such as, web sites, videos, and newspapers etc.

Course Structure

Unit

10L

Introduction and Accountants Role in the organization, Cost Allocations, Activity Based Costing; Activity Based Costing Exercises and Problem Solving

Unit II

Cost Volume Profit Analysis (CVP), Marginal Costing, CVP & Marginal Costing Exercises and Problem Solving.

Unit

10L

Standard Costing; Standard Costing, Exercises and Problem Solving, Planning: Master Budget, Budgets and Budgeting Cycles, Advantages, Steps in Developing Operating Budgets, Cash Budgets.

Unit IV

Flexible Budgets and Cost Variances, Flexible Budgets Exercises and Problem Solving; Cost Variances Exercises and Problem Solving

Unit V

Management Control Systems, Transfer Pricing; Transfer Pricing Exercises and Problem Solving

Text Book(s):-

- 1. Managerial Accounting: Ronald W Hilton, G Ramesh, M Jayadev, Tata McGraw-Hill
- Cost Accounting: A Managerial Emphasis by Charles T. Horngren, Srikant M. Datar and George Foster, PHI Private Limited
- 3. Cost Accounting: A Managerial Emphasis by Horngren, Datar, Foster, Rajan and Ittner, Pearson

10L

10L

Ι

10L

III

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination Examination Scheme:

Components	Mid Term	Attendance	Class Assessment	End Term
Weightage (%)	20	00	30	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping betw	een COs and POs	
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Explain the fundamental purposes of cost and management accounting. As part of this learning, students will be able to appreciate the use of different costs for different purposes.	PO1, PO 2
CO2	Apply traditional and contemporary approaches to cost allocation.	PO1,PO5, PO3, PO 6, PSO2
CO3	Analyze relevant information for decision making purposes in order to produce financial analyses for a range of decisions such as product-mix, pricing, outsourcing and special orders.	PO2, PO4, PO 6, PSO1, PSO2
CO4	Integrate the concept of standard costs with other theories to prepare budgets for planning and control purposes.	PO5, PO6, PO7

		Domain Knowledge	Problem Solution	Leadership and Organization Skills	Ethics	Environment and Sustainability	: Life-long Learning	Creativity and Innovation	Development of knowledge in the area of	digital and allied technologies including	digital tools such as SEO, SEM, social	Develop competencies to be socially responsible business professionals
Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1			PSO 2
FAC11008	Cost and Management	3	3	2	1	1	3	2	1			3

Accounting					

1= weakly mapped

2= moderately mapped

3=strongly mapped

Name:

Enrolment No:



ADAMAS UNIVERSITY SCHOOL OF BUSINESS & ECONOMICS END SEMESTER EXAMINATION

Course: FAC11008 – Cost and Management Accounting

Program: BBA Time: 03 Hrs. Semester: IV Max. Marks: 50

Instructions:

Attempt All Questions from Section A (Each Carrying 2 Marks); any Four Questions from Section B (Each Carrying 5 Marks). Any Two Questions from Section C (Each Carrying 10 Marks).

SE	CTION A (Answer All Questions)		
1.	Define Maximum Stock Level.	Remembering	CO1
2	Define Economic Ordering Quantity.	Understanding	CO1
3	State the main point of difference between Halsey and Rowan System.	Remembering	CO2
4	State the difference between cost, price and value with an example.	Remembering	CO1
5	What is the primary difference between cost accounting and management accounting?	Remembering	CO1
	SECTION B		
1.	Two components A and B are used as follows – Normal Usage – 50 per week each Maximum usage – 75 per week each Minimum usage – 25 per week each Re-order Quantity – A = 300 units; B = 500 units Re-order period – A == 4 to 6 weeks B == 2 to 4 weeks Calculate for each component (a) Re-order Level; (b) Minimum Level; (c) Maximum Level; (d) Average Stock Level	Understanding	CO2
2	From the following particulars with respect to a particular item of materials of a manufacturing company, calculate the best quantity	Understanding	CO1

	Less than 250 250 but less than 800 800 but less than 2,000 2,000 but less than 4,000 4,000 and above The annual demand for the material is 4,000 to costs are 20% of material cost p.a. The delivery ₹6.0	y cost per order is		
3.	Pepsi Company produces a single article. For given about its product: Selling price per unit Rs.40 Marginal cost per unit Rs.24 Fixed cost per annum Rs. 16000 Calculate: (a)P/V ratio (b) break even sales (c) sales to a 2,000 (d) Profit at sales of Rs. 60,000?		Analyzing	CO3
4.	Johnny Ltd. manufactures a single product he cost of Rs. 1.50 per unit. Fixed cost is Rs. 30 The market is such that up to 40,000 units ca of Rs. 3.00 per unit, but any additional sale n 2.00 per unit. Company has a planned profit many units must be made and sold SECTION C (Attempt any Two Questions)	000 per annum. n be sold at a price nust be made at Rs. of Rs. 50,000. How	Analysing	CO3
1.	Prepare a statement showing the pricing of is of (a) Simple Average and (b) Weighted Average methods from the foll pertaining to Material-DS 2016 March 1 Purchased 100 units @ ₹10 each 2 Purchased 200 uits @ ₹10.2 each. 5 Issued 250 units to Job X vide M.R 7 Purchased 200 units @ ₹10.50 each 10 Purchased 300 units @ ₹10.80 each 13 Issued 200 units to Job Y vide M.J 18 Issued 200 units to Job Z vide M.J 20 Purchased 100 units @ ₹11 each 25 Issued 150 units to Job K vide M.J	sues, on the basis owing information .No.12 .h R.No.15 R.No.17	Applying	CO4
2.	A company is providing its product to the the wholesalers. The managing direc thinks that if the company starts selling to the consumers directly, it can increa higher prices and make more profit. On the basis of the following inform	tor othe company through retailers or se its sales, charge	Applying	CO4

	managing direct channel of distri		company sho	ould change its		
	Particulars	Wholesaler	Retailer	Consumer		
	ales per unit (Rs.)	3.60	5.25	6.00		
	stimated Sales per year (units)	1,00,000	1, 20, 000	1, 80, 000		
	Selling and distribution verheads (per unit in Rs.)	0.40	1.00	1.50		
3.	From the following : a. P/V Ratio b. Sales & c. Margin of Safety Fixed Cost = Rs.40, Profit = Rs. 20,000 B.E.P. = Rs. 80,000	Creating	CO4			

IST11001	Management Information System & ERP	L	Т	Р	С
Version 1.0	Contact Hours - 60	3	1	0	4
Pre-requisites/Exposure Basic Knowledge about Management Principles					
Co-requisites	-				

Course Objectives

- 1. To describe the role of information technology and decision support systems in business and record the current issues with those of the firm to solve business problems.
- 2. To introduce the fundamental principles of computer-based information systems analysis and design and develop an understanding of the principles and techniques used.
- 3. To enable students understand the various knowledge representation methods and different expert system structures as strategic weapons to counter the threats to business and make business more competitive.
- 4. To enable the students to use information to assess the impact of the Internet and Internet technology on electronic commerce and electronic business and understand the specific threats and vulnerabilities of computer systems.
- 5. To provide the theoretical models used in database management systems to answer business questions.

Course Outcomes

On completion of this course, the students will be able to

- CO1. Relate the basic concepts and technologies used in the field of management information systems.
- CO2. Compare the processes of developing and implementing information systems.
- CO3. Outline the role of the ethical, social, and security issues of information systems.
- CO4. Translate the role of information systems in organizations, the strategic management processes, with the implications for the management.
- CO5. Apply the understanding of how various information systems like DBMS work together to accomplish the information objectives of an organization along with implementation of MIS.

Catalog Description

This course helps students see the connection between information systems (IS) and business performance. The use of information and communication technologies (ICT) by individuals and organizations dominates the business world. There is a fundamental change going on in the way that organizations run businesses and interact with each other. New types of infrastructure and applications are developed and utilized such as ERP (enterprise resource planning), IOS (interorganizational systems), RFID (radio frequency identification), CRM (customer relationship management), to name a few. The aim of the course is to enable students to assess the opportunities and problems that managers in a wide range of organizations face as they attempt to use these IT applications to add value to their businesses. It also aims to help students understand transformational changes within and across industries. These changes have strategic implications for many businesses.

Course Content

Unit I: Introduction

Basic concepts in organization and management. Information technology versus information systems. Concept of fit between an organization and its information systems.

Unit II: Decision Making

Management Decision Types - Structured, Semi-structured, Unstructured. Role of information systems in decision making. Transaction Processing Systems, Management Information Systems, Decision Support systems.

Unit III: Information Systems

Information Systems and Competitive Advantage. Porter's 5 Forces Model, impact of information systems on industry dynamics. Concept of value chain and eco-systems and impact of information systems on a firm and its eco-system's performance. ERP, SCM and KMS systems.

Unit IV: Data and Information Management

Components of information technology infrastructure. Changing parameters of computing mainframes to client servers to cloud computing. Importance of Data, Data Management Concepts. Keeping abreast of current trends in IT : Social, Mobile, Analytics, Cloud, AI, ML.

Unit V: IT Implementation

Deploying information systems in organizations. Make or Buy. IT implementation Life Cycle. In-house versus Outsourcing.

Reference Books

1. Jawadekar, W.S., "Management Information Systems", Tata McGraw Hill Private Limited, New Delhi, 2009.

2. Kenneth C. Laudon and Jane P. Laudon: "Management Information Systems" 9/e, Pearson Education, New Delhi.

3. Alex Leon and Mathew Leon: "Data Base Management Systems", Vikas Publishing House, New Delhi.

4. Goyal, D.P.: "Management Information System", MACMILLAN India Limited, New Delhi, 2008.

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination **Examination Scheme:**

Components Mid Term		Class Assessment	End Term
Weightage (%)	20	30	50

10 Lecture Hours

12 Lecture Hours

12 Lecture Hours

12 Lecture Hours

14 Lecture Hours

	Mapping between COs and Pos	
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Relate the basic concepts and technologies used in the field of management information systems.	PO1, PO6
CO2	Compare the processes of developing and implementing information systems	PO2, PO6, PO7
CO3	Outline the role of the ethical, social, and security issues of information systems	PO4, PO5, PO6
CO4	Translate the role of information systems in organizations, the strategic management processes, with the implications for the management.	PO1, PO4, PO6, PO7
C05	Apply the understanding of how various information systems like DBMS work together to accomplish the information objectives of an organization along with implementation of MIS.	PO1, PO2, PO3, PO4, PO6, PO7

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

		Management Knowledge	Problem Solution	Leadership and Organization Skills	Ethics	Environment and Sustainability	Life-long Learning	Creativity and Innovation	Prepare basic knowledge, skills, tools and techniques to enable them to take up higher studies and research.	Development of entrepreneurial skills and spirit.	Develop competencies to be socially responsible business professionals.
Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PS03
IST11001	Management Information System & ERP	3	2	1	3	1	3	2	3	3	3

1=weakly mapped

2= moderately mapped

3=strongly mapped

Model Question Paper

Pro	olment No:	agement Information system & ERP Time: 03 Hrs. Max. Marks: 50				
Atte Sect		ach Carrying 2 Marks); any Four Quest Two Questions from Section C (Each (
	SECTION A	(Answer All Questions)				
1.	Define MIS. (Remembering)		2	CO1		
2.	2. Define Data and Information. (Remembering)					
3.	3. Explain the meaning of Data Mining. (Understanding)					
4.	Define Structured Decision. (Remembering)					
5.	5. Define ERP. (Remembering)					
	SECI	FION B				
1.	Explain Information Life Cycle (Und	lerstanding)	5	CO4		
2.	(Analyzing)	ecision and Stand Alone Decision.	5	CO1		
3.	State the ethical issues involved in (Analyzing)	in Planning of MIS implementation.	5	CO3		
4.	Explain Software Reliability. (Analy	zing)	5	CO5		
	SECTION C (Attem	ppt any Two Questions)				
1.	Organization Structure influences MIS and in turn, MIS influences Organization Structure – Discuss in detail with suitable example. (Creating)					
2.	Explain the need and demerit (Understanding)	s of Information System Audit.	10	CO3		
3.	Define DBMS. (Remembering)		4	CO5		
	× • • • • • • • • • • • • • • • • • • •	ase management system while thinking anization. (Understanding)	6			
L						

MGT11005	Introduction to Research Methodology L T					
Version 1.2	Contact Hours – 60 3 1				4	
Pre-requisites/Exposure	Basic idea of Mathematics					
Co-requisites						
Academic year	2020-21					

Course Objectives

- 1. To provide understanding and learning fundamental concepts in the field of Business Research.
- 2. To get detail idea how to design research in relation to various business Problem.
- 3. To equip the students with research tools to conduct research and analysis for effective decision making.
- 4. To explore in the area of proposal writing and report preparation.

Course Outcome: At the end of the course, the student will be able to:

CO 1- Discuss basic concept of research methodology, identification of problem etc.

CO 2- Recognize and develop on understanding of qualitative and quantitative research.

CO3- Identify different Concept of Measurement and Levels of measurement and hypothesis testing.

CO 4- Demonstrate different statistical tools with different business problems

CO 5: Develop knowledge and skills on writing of research report

Course Description:

In present market scenario business decision can be taken on concrete practical evidences. Research methodology is an important subject for every business professional to take a fact based decision for the organization. It is fundamental subjects for the business that are making their business in analytics based decision making. This course will help the students to get knowledge on identification of research problem in relation to various business problems, design of problem, collection of information, development of questionnaire, analysis of the data by using different statistical tools.

Course Contents:

UNIT I: 14 Hrs

Introduction: Concept of Research and Its Application in Various Functions of Management, Types of Research, Types of Business Problems Encountered by the Researcher, Problems and Precautions to the Researchers.

Process of Research: Steps Involved in Research Process. Research Design: Various Methods of Research Design, Collection of Data.

UNIT II: 10 Hrs

Concept of Sample, Sample Size and Sampling Procedure, Various Types of Sampling Techniques, Determination and Selection of Sample Member, Types of Data: Secondary and Primary, Various Methods of Collection and Data,

UNIT-III: 12 Hrs

Preparation of Questionnaire and Schedule, Types of Questions, Sequencing of Questions, Check Questions, Length of Questionnaire, Precautions in Preparation of Questionnaire and Collection of Data. Measurement and scaling techniques.

UNIT- IV: 14 Hrs

Unit- Analysis of Data: Coding, Editing and Tabulation of Data, Various Kinds of Charts and Diagrams Used in Data Analysis: Bar and Pie Diagrams and their Significance, Use of SPSS / Excel in Data Analysis, Testing of hypothesis- mean, proportion, variances; Application and Analysis of Variance (ANOVA). Measurement and Central Tendency, Measure of Dispersion and their Advantages.

UNIT V 8 Hrs

Report Preparation: Types and Layout of Research Report, Precautions in Preparing the Research Report. Bibliography and Annexure in the Report: Their Significance, Drawing Conclusions, Suggestions and Recommendations to the Concerned Persons.

Suggested Readings:

- 1. Kothari C R Research Methodology Methods & Techniques (New Age International Publishers)
- 2 Saunders Research Methods for Business students (Prentice hall, 2nd Edition, 2007)
- 2. Cooper and Schindler Business Research Methods (Tata Mc Graw Hill, 9th Edition)

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination Examination Scheme:

Components	Mid Term	Attendance	Class Assessment	End Term
Weightage (%)	20	00	30	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

	Mapping between COs and Pos							
	Mapped Program Outcomes							
CO1	Discuss basic concept of research methodology, identification of problem etc.	PO1, PO 2						
CO2	Recognize and develop on understanding of qualitative and quantitative research.	PO1,PO2, PO3, PO 6, PSO2						
CO3	Identify different Concept of Measurement and Levels of measurement and hypothesis testing.	PO2, PO4, PO 6, PSO1						
CO4	Demonstrate different statistical tools with different business problems.	PO5, PO6, PO7						
CO5	Develop knowledge and skills on writing of research report.	PO4, PO5, PSO 2						

		Management Knowledge	Problem Solution	Leadership and Organization Skills	Ethics	Environment and Sustainability	: Life-long Learning	Creativity and Innovation	Prepare basic knowledge, skills, tools	and techniques to enable them to take up	Development of entrepreneurial skills	Develop competencies to be socially responsible business professionals.
Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1		PSO 2	PSO3

	Introduction								3	1	
MGT11005	to research	2	2	3	2	1	2	2			
	methodology										

1= weakly mapped

2= moderately mapped

3=strongly mapped

Name:

Enrolment No:



Course: MGT11005– Introduction to Research Methodology

Program: BBA Time: 03 Hrs. Semester: IV Max. Marks: 50

Instructions:

Attempt All Questions from Section A (Each Carrying 2 Marks); any Four Questions from Section B (Each Carrying 5 Marks). Any Two Questions from Section C (Each Carrying 10 Marks).

10	Marks).		
	SECTION A (Answer All Questions)		
1	Define concept of research methodology	Remembering	CO1
2	Compare and contrast between research method and methodology	Understandin g	CO1
3	Define independent and dependent variables	Remembering	CO2
4	What are important aspects of questionnaire	Remembering	CO1
5	What do you mean hypothesis testing?	Remembering	CO1
	SECTION B		
1	Explain the criteria of goodness of measurement scale.	Understandin g	CO2
2	How does the case study method differ from survey method?	Remembering	CO3 , CO2
3	Illustrate and explain the procedure of selection of random sample.	Understandin g	CO 3
4	Analyse the merits and limitations of case study method in business research	Analysing	CO3
	SECTION C (Attempt any Two Questions)		
1	 Set up an analysis of variance table for the following per acre production data for three varieties of wheat, each grown on 4 plots and state if the verity 	Applying	CO4

	differen							
		Pe	er acre proc	duction da	ita			
	Plot of	land	V	ariety of v	wheat			
		A		B C				
	1	6		5	5			
	2	7		5	4			
	3	3		3	3			
	4	8		7	4			
		-			-		Applying	CO4
-			-			mber of		
custom	ers falling in	n differen	t buying-in	itelligence	e levels.			
	Researche	No of cu	stomers in	each leve	el			
1	r							
		Below	Averag	Above	Geniu	Tota		
		averag	e	averag	s	1		
		e		e				
	1	86	60	44	10	200		
	2	40	33	25	2	100		
		126	93	69	12	300		
Are the	e two sampli	ng techni	ques and b	uying inte	lligence			
signific	cantly indepe	endence. '	Test at 5%	level of si	ignificanc	e		
(value-	7.815)							
	-	-			a market	problem	Creating	CO4
with the	e help of Lil	kert and n	nultiple sca	aling.				
	Are the signific (value-	Plot of 1 2 3 4 Two researchers investigating the sa customers falling in Researche r 1 2 Total Are the two sampli significantly indeper (value- 7.815)	Plot of landPlot of landA16273348Two researchers adopted8Two researchers adopted9investigating the same group9customers falling in differentResearcheNo of currr8240Total126Are the two sampling technisignificantly independence.(value- 7.815)Develop a research question	Per acre prod Plot of landPlot of landNAA16273348Two researchers adopted different s investigating the same group of custor customers falling in different buying-inResearche rNo of customers in rResearche eNo of customers in rResearche eNo of customers in averag eImage: the same group of custor customers falling in different buying-inResearche eNo of customers in averag eImage: the same group of custor customers falling in different buying-inResearche the same group of custor customers falling in different buying-inResearche the same group of custor customers falling in different buying-inResearche the same group of custor significantly independence. Test at 5% (value- 7.815)Develop a research questionnaire in research	Per acre production daPlot of landVariety of variety o	Per acre production dataPlot of landVariety of wheatABC1655275433334874Two researchers adopted different sampling technique investigating the same group of customers to find the nu customers falling in different buying-intelligence levels.Researche rNo of customers in each level rBelow averagAverag eAbove averag sResearche rNo of customers in each level averag e1866044240332524033252403325212126Are the two sampling techniques and buying intelligence significantly independence. Test at 5% level of significance (value- 7.815)Develop a research questionnaire in relation to a market provide the same provide t	Plot of landVariety of wheatABC165275333487Two researchers adopted different sampling techniques while investigating the same group of customers to find the number of customers falling in different buying-intelligence levels.Researche rNo of customers in each levelBelow averag eAverag eAverag eAbove e18660441020024033252100 Total126936912300Are the two sampling techniques and buying intelligence significantly independence. Test at 5% level of significance (value- 7.815)Develop a research questionnaire in relation to a market problem	Per acre production dataPlot of landVariety of wheatABC165275333487Two researchers adopted different sampling techniques while investigating the same group of customers to find the number of customers falling in different buying-intelligence levels.ApplyingResearche rNo of customers in each level rImage: second seco

EIC11002	Entrepreneurship Development	L	Τ	Р	С			
Version 1.0	Contact Hours - 60	3	1	0	4			
Pre-requisites/Exposure	Basic understanding of business, innovation and marketing							
Co-requisites								

Course Objectives:

- 1. To expose students about entrepreneurship and its importance in every sector of economy since it opens up the door for enterprise creation in every sector of business.
- 2. Skilling up youth is to encourage them to set up their own micro/small enterprises or engage themselves productively in larger enterprises.
- 3. Creating an entrepreneurial eco-system essential in our country.
- 4. Developing an entrepreneurship movement through its education.

Course Outcomes:

On completion of this course, the students will be able to:

CO1. Understanding the basic fundamentals of entrepreneurship.

CO2. Recognise the importance of having strong entrepreneurial characteristics.

CO3. Process of business idea generation and converting the idea into a business model.

CO4. Role of government agencies that renders support in terms of policies, assistances etc.

CO5. Sustenance and growth of the enterprises by start-up entrepreneurs.

Catalogue Description

Entrepreneurship is generally understood to be the practice of starting new business organisations in response to perceived opportunities. It results in establishment of small oneperson businesses as also large organisations capable of creating many job opportunities. Entrepreneurship has been identified as one of the major trends shaping business, economy and even society. The modern study of entrepreneurship owes a lot to the pioneering efforts of Joseph Schumpeter and other economists. Similarly, Frank Wright, Peter Drucker, and many others have successfully contributed to the growth of entrepreneurship theory, practice and research. In recent times, entrepreneurship and entrepreneurs have received a lot of attention from academicians, writers, media, and general public. The achievements and contributions of entrepreneurs have been acknowledged by society. Many entrepreneurs are honoured and awarded for their achievements nationally as well as internationally.

Module 1: 10 Lecture Hours

Introduction - Understanding the meaning of Entrepreneurial ship - Characteristics of an Entrepreneur - Classification of the Entrepreneurs – MSME Classification in India- Entrepreneurial Scene in India - Factors influencing Entrepreneurship.

Module II

10 Lecture Hours

Early Career Dilemmas of an Entrepreneur, The Entrepreneur's Role, Task and personality A typology of Entrepreneurs: Defining Survival and success, Entrepreneurship as a Style of Management

Module III

10 Lecture Hours

Entrepreneurial growth - Role played by government and Non-Government agencies - EDP's, WBIDC, SIDBI, IDBI, IFCI. Rural Entrepreneurs - Small scale entrepreneurs and Export Entrepreneurs .

Module IV

10 Lecture Hours

Business plan, Business idea generation Techniques - Identification of Business Opportunities -Marketing Feasibility - Financial Feasibility - Technical - Legal - Managerial and Location Feasibility.

Module V

10 Lecture Hours

Project Appraisal - Methods - Techniques - Preparation of Business Plan - Content of a Business Plan - Project Report.

Module VI

10 Lecture Hours

Start of an enterprise - Franchising and Acquisition - Product Strategies - Pricing Strategies - Distribution Strategies - Promotional Strategies. How to be a successful Entrepreneur? Learning to be Successful - Successful entrepreneurs.

Reference Books:

- 1. Vasant Desai Dynamics of Entrepreneurial Development and Management. HPH(2019)
- 2. Khanna Entrepreneurial Development. S. CHAND (2018)
- 3. Rajeev Roy- Entrepreneurship, Oxford University Press

Modes of Examination: Assignment/Quiz/Project/Presentation/Written Exam

Examination Scheme:

Components	Internal	Attendance	Mid Term	End Term
Weightage (%)	30	00	20	50

	Mapping between COs and POs							
	Course Outcomes (COs)	Mapped Program Outcomes						
CO1	Understanding the basic fundamentals of entrepreneurship.	PO1, PO2						
CO2	Recognise the importance of having strong entrepreneurial characteristics.	PO1,PO2, PO3, PSO1						
CO3	Process of business idea generation and converting the idea into a business model.	PO1, PO2, PO3, PO4, PO5, PO4,						
CO4	CO4 Role of government agencies that renders support in terms of policies, assistances etc.							
CO5	Sustenance and growth of the enterprises by start-up entrepreneurs.	PO11, PO12						

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Course Code	Course Title	Dd Management Knowledge	Problem Solution	Ecadership and Organization Skills	Ethics PO4	Environment and Sustainability	: Life-long Learning	Creativity and Innovation	Drepare basic knowledge, skills, tools	and techniques to enable them to take up	² Development of entrepreneurial skills	Develop competencies to be socially responsible business professionals.
EIC11002	Entrepreneurship Development	3	3	-	-	-	-	3	3		-	3

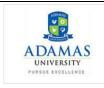
1=weakly mapped

2= moderately mapped

3=strongly mapped

Model Question Paper

Enrolment No:



Course: EIC11002 Entrepreneurship Development

Program: BBA Semester: IV Time: 3 Hrs. Max. Marks: 50

Instructions:

Attempt any five questions from **Section A** (each carrying 2 marks); any **Three Questions** from **Section B** (each carrying 10 marks). **Section C** is Compulsory (carrying 10 marks).

	Section A (Att	empt any Three)
1.	What are the characteristics of an entrepreneur?	2	C01
2.	Write principles of effectuation.	2	CO2
3.	What is the flow of an entrepreneurial idea?	2	CO4
4.	What is design thinking?	2	CO3
5	What is practice venture?	2	CO5
6	Define small and micro enterprise.	2	CO4
	SECTION B		
7.	Explain the factors influencing entrepreneurship.	10	CO2
8.	Write a business plan for a service idea.		CO4
9.	Explain the Government support available to start-up ventures.	10	CO1

	SECTION C is Compulsory		
10.	Case Study on Distribution and IT	10	CO3 and CO5

BAN11006	APPLIED STATISTICAL MODELING	L	Т	Р	C
Version 1.0	Contact Hours - 30	1	0	2	2
Pre-requisites/Exposure	Basic Calculation Skills				
Co-requisites					
Academic Year	2021-22				

1. To understand the basic concepts and theories of multivariate descriptive analytics.

- 2. To gain a deeper insight of advanced techniques of data analysis
- 3. To expand individual knowledge of predictive modeling techniques.

Course Outcomes:

CO1: Provide guidelines to identify and describe real life problems so that relevant data can be collected

CO2: Linking data generation process with statistical distributions, especially in the multivariate domain

CO3: Providing step by step procedure for estimating parameters of a statistical model

CO4: Interpret model results in real life problem solving

Course Description:

The concept of data and statistical modeling is now part of the business lexicon. Organisations are integrating data science and analytics in their operations and have already seen big wins. Yet only a minority of business managers have perfected the practice of using data to manage information and performance. This course will provide an overview of various data analysis tools, especially in multivariate data analysis framework, which will enable participants to make data-driven decision making in a fast-changing business environment.

Course structure:

Unit 1: 4 Hours

Background Introduction to Multivariate Statistical Modelling

Unit 2: 10 Hours

Descriptive Statistics, Sampling Distribution, Estimation, Hypothesis Testing & Inferential Statistics

Unit 3: 6 Hours

Analysis of variance (ANOVA), Multivariate analysis of variance (MANOVA)

Unit 4: 10 Hours

Multivariate Predictive Modeling: Multiple Linear Regression (MLR), Principle Component Analysis (PCA), Factor Analysis, Cluster Analysis, Introduction to Structural Equation Modeling (SEM)

Suggested Readings:

- 1. Applied multivariate statistical analysis by R A Johnson and D W Wichern, Sixth Edition, PHI, 2012.
- 2. Multivariate data analysis by Joseph F. Hair Jr,Rolph E.Anderson, Ronald LTatham, and William C.Black, Fifth Edition,Pearson Education, 1998.

Project:

The class will be divided into Groups consisting of 5 members each. Each group will be given a topic which will analyze one real life scenario. The Group will have to collect data based on a survey/from social-media and then they will have to analyze the data based on the queries taught during the sessions. Each group will present before all student as a result all students should have an idea of different real life scenarios and how to analyze the data.

Modes of Evaluation: Quiz/Assignment/presentation/Written Examination Examination Scheme:

Components	Mid Term	Class Assessment	End Term
Weightage (%)	20	30	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

	Mapping between COs and POs							
	Course Outcomes (COs)	Mapped Program Outcomes						
CO1	Provide guidelines to identify and describe real life problems so that relevant data can be collected	PO1, PO2, PO6, PO7, PO8, PSO1						

CO2 CO3	distribution Providing parameter	Linking data generation process with statistical distributions, especially in the multivariate domain Providing step by step procedure for estimating parameters of a statistical model Interpret model results in real life problem solving									PO1, PO2, PO6, PO8, PSO1, PSO2 PO1, PO2, PO6, PO7, PO8, PSO1, PSO2 PO1, PO2, PO3, PO6,		
CO4						<u></u>		8		PO7,]	PO8, PSC D2, PSO3)1,	
		Domain Knowledge	Problem Solution	Leadership and Organization Skills	Ethics and Governance	Environment and Sustainability	Life-long Learning	Creativity and Innovation	Employability	Create capabilities of converting theoretical knowledge and data into practical applications with help of analytical tools and techniques.	Keep abreast of trans-disciplinary trends which can be brought to bear in creating strategic and tactical benefits in a VUCA world.	Develop competencies to be socially responsible business professionals.	
Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 03	
BAN11006	Applied statistical modeling	3	3	1	-	-	3	2	2	3	2	2	

1= weakly mapped

2= moderately mapped

3=strongly mapped

Enrolment No:



ADAMAS UNIVERSITY SCHOOL OF BUSINESS & ECONOMICS END SEMESTER EXAMINATION Course: BAN11006 – Applied Statistical Modeling

Program: BBA (Business Analytics) Time: 03 Hrs. Semester: IV Max. Marks: 50

Instructions:

Attempt All Questions from Section A (Each Carrying 2 Marks); any Four Questions from Section B (Each Carrying 5 Marks). Any Two Questions from Section C (Each Carrying 10 Marks).

	· · · ·		SEC	CTION A	(Answer	· All Ques	tions)		
1.	What are	the differ	ent compo	onents of a	a Time So	eries?		Remembering	CO1
2	What are	the goodr	on?	Remembering	CO2				
3	The mean added. W		ion 16 is	Applying	CO3				
4	Mention odd's rati		What is	Remembering	CO4				
5	Two same mean of A coefficient	A is greate	er than tha	s, but the ent on the	Understanding	CO4			
			S	ECTION	B				
1.	The table	contains		obtained Subject	•	lents in a c	course		
	Student	Maths	Science	Physics	Geog	History	Eng		
		(150)	(130)	(120)	(100)	(100)	(100)		
	Ayush	90	50	90	60	70	80		
	Aman Sajal	100 90	80 60	80 70	40 70	80 90	70 70	Creating	601
	Rohit	80	65	80	80	60	75	Creating, Applying	CO1, CO2
	Tanvi	80	65	75	95	50	85	Apprying	002
	Tarun	70	75	50	85	75	90		
	Find the f	-		ned by all	of them i	in Physics			

	(b) Number of stu	dents who got 60% and	d above in all subjects		
		ct is the overall percen			
	•	rcentage of Tarun and	•		
2	Explain cluster analys	is briefly. What are the	e different methods of	Creating,	
	clustering? Explain the different l	inkage methods used i	n Hierarchical	Applying	CO3, CO4
	Clustering Algorithm	linkage methods used h	ii Theratenicai		001
3.)	of confusion matr	ix in the context of	TT 1 / 1	604
	Classification Algorithm			Understanding	CO4
4.		1	ng? When is stratified	Remembering,	CO2
	sampling considered to			Understanding	002
	SECTION	C (Attempt any Two	Questions)		
1.	A study is designed to	o test whether there is	a difference in mean	Creating,	CO2
	daily calcium intake	in adults with norma	l bone density, adults	Understanding	
	with osteopenia (a	low bone density	which may lead to		
	osteoporosis) and adu	lts with osteoporosis.	Adults 60 years of age		
	with normal bone dens	sity, osteopenia and os	teoporosis are selected		
	at random from hospi	tal records and invite	d to participate in the		
	study. Each participat	nt's daily calcium inta	ke is measured based		
	on reported food inta	ake and supplements.	The data are shown		
	below.				
	Normal Bone Density	Osteopenia	Osteoporosis		
	1200	1000	890		
	1000 980	1100 700	650 1100		
	900	800	900		
	750	500	400		
	800	700	350	TT 1 1	604
2.	(a) Explain the differe	nt parts of a Dendogra	m in Hierarchical	Understanding	CO4
	Clustering algorithm.	C 1 1 · · ·	1 .		
	(b) Explain the workin		e agglomerative		
	Hierarchical Clusterin				001
3.	What are the various s	-	•	Understanding,	CO1, CO3,
	Mention few busin			Applying, Creating	CO3, CO4
	algorithms that have b	een covered in the cou	rse	Creating	

BAN11007	BASICS OF R-PROGRAMMING	L	Т	Р	C		
Version 1.0	Contact Hours - 30 1 0 2						
Pre-requisites/Exposure	Basic Calculation Skills, Basic Programming	Skill	s				
Co-requisites							
Academic Year	2021-22						

- 1. To understand the basic concepts of R programming.
- 2. To gain a deeper understanding of using R for accessing data from different files and performing complex operations.
- 3. To develop an understanding of visualizing data using R for better analysis.
- 4. To apply the knowledge learnt in different business scenarios.

Course Outcomes:

On completion of this course, the students will be able to:

CO1. Discuss the fundamental concepts of R programming.

CO2. Recognize the use of different commands in R for processing data and analyzing it in business scenarios.

CO3. Apply the knowledge learnt in R for visualizing the results.

CO4. Assess the use of R commands for machine learning related cases in various business scenarios.

Course Description:

With the increasing demand for data analytics, the need for utilizing open source programming software like R and Python is slowing increasing for data analysis. This course will prepare the students to understand how to program in R and utilize this knowledge to analyze data in different business oriented scenarios. All the lectures contain a blend of discussions on basic theories and advanced topics, focusing on practical implementation of knowledge. Classes will be conducted by lecture as well as power point presentation as per requirement. The tutorials will familiarize the students with practical problem-solving techniques. Students will be able to gain a strong understanding of the course via theoretical sessions, case study discussions, problem solving and discussions with the coordinator.

Course structure:

Unit I 8 L

Introduction; Getting and Installing R; The R User Interface; Some basic operations in R; Overview of R packages; R Variables and Data types; R Data Structures- Vectors, Matrices, Dataframe, List

Unit II 10 L

Getting deeper into R programming; Functions; Importing and Exporting Data; Data Manipulation using R; Descriptive Statistics using R: Solving business scenarios using R

Unit III 6 L

Data Visualization using R; Getting an overview of graphics in R; Overview of ggplot2; Lattice Graphics; Visualizations with Plotly.

Unit IV 6 L

Introduction to Machine Learning using R- Association Analysis, Linear Regression

Text Book(s):-

- 1. Adler, J.: R in a nutshell. A desktop guide reference. O'Reilly. 2nd Edition.
- 2. Grollemund, G., Wickham, H. : R for Data Science. O'Reilly.

Project:

The class will be divided into Groups consisting of 5 members each. Each group will be given a topic which will analyze one real life scenario. The Group will have to collect data based on a survey/from social-media and then they will have to analyze the data based on the queries taught during the sessions. Each group will present before all student as a result all students should have an idea of different real life scenarios and how to analyze the data.

Modes of Evaluation: Quiz/Assignment/presentation/Written Examination Examination Scheme:

Components	Mid Term	Class Assessment	End Term
Weightage (%)	20	30	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs	
Course Outcomes (COs)	Mapped Program Outcomes

CO1	Discuss the fundamental concepts of R programming.	PO1, PO2, PO6, PO7, PO8, PSO1
CO2	Recognize the use of different commands in R for processing data and analyzing it in business scenarios.	PO1, PO2, PO6, PO8, PSO1, PSO2, PSO3
CO3	Apply the knowledge learnt in R for visualizing the results.	PO1, PO2, PO6, PO7, PO8, PSO1, PSO2, PSO3
CO4	Assess the use of R commands for machine learning related cases in various business scenarios.	PO1, PO2, PO3, PO6, PO7, PO8, PSO1, PSO2, PSO3

		Domain Knowledge	Problem Solution	Leadership and Organization Skills	Ethics and Governance	Environment and Sustainability	Life-long Learning	Creativity and Innovation	Employability	Create capabilities of converting theoretical knowledge and data into practical applications with help of analytical tools and techniques.	Keep abreast of trans-disciplinary trends which can be brought to bear in creating strategic and tactical benefits in a VUCA world.	Develop competencies to be socially responsible business professionals.
Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 03
BAN22202	Basics of R programming	3	3	1	-	-	3	2	2	3	2	2

1= weakly mapped 2= moderately mapped

3=strongly mapped

Enrolment No:



ADAMAS UNIVERSITY SCHOOL OF BUSINESS & ECONOMICS END SEMESTER EXAMINATION

Course: BAN11007 – Basics of R-Programming

Program: BBA (Business Analytics) Time: 03 Hrs. Semester: IV Max. Marks: 50

Instructions:

Attempt All Questions from Section A (Each Carrying 2 Marks); any Four Questions from Section B (Each Carrying 5 Marks). Any Two Questions from Section C (Each Carrying 10 Marks). This is an open book open laptop examination. You must submit your codes and outputs. SECTION A (Answer All Questions)

		SECTIO	ON A (Answer All Q	uestions)		
1.	What is the	difference between a	lata frame and vector	?	Remembering	CO1
2	What do yo	ou mean by control st	ructures?		Remembering	CO2
3	Identify two	o reasons for the need	l of data visualization		Applying	CO3
4	List two tec	chniques for measurir	ng R program perform	ance.	Remembering	CO4
5	Compare an	nd contrast between I	Linear and Logistic re	gression.	Understanding	CO4
		SECT	FION B			
1.		by 3 matrix consistir e variable mat. Find	e	Creating, Remembering	CO1, CO2	
2	Create a 5 t to the varia previous ex [7,8] [12,13]	Creating, Applying	CO1, CO2			
3.	For the data	a smooth fit line to t	-	olume versus		
		Sales	Volume			CO1,
	-	72	53800		Creating,	CO1, CO3,
		98	65050	_	Applying	CO3, CO4
		130	92850			
		98	97300			
		141	10590			
		156	13910			

			1	.79		7	5892			
4.	print ou	ut the el and else	lementa e stater	s in or nents f	der fro for you	m high t r logic.	to low. Yo	length 3, will u must use if,		CO2
		SEC	CTION	\mathbf{NC} (A	ttemp	t any Tw	o Questio	ns)		
1.	accepts alumin have sr Show t For exa 5kg bar bars (3 (b)Use boxploi	an in um for t nall bar he least umple, a rs and 1 5kg bar the 'm t using	nteger the paces s (1 kill number load of 1kg ba rs and 2 tcars' factor	repres kage to logram er of ba of 6 kg ars). A 2 1kg t datase	senting b be sh each) ars nee requir load o bars). t from npg'.	the ra ipped. T and big ded. es a mini f 17 kg r 'ggplot	equested 1 bors (5 kild imum of tw requires a r 2' package	function that kilograms of hese order, we ograms each). vo bars (1 ninimum of 5 e and build a hoose proper	Understanding	CO2
		to visu								~~ (
2.		table gi					CasaPlus		Applying	CO4
	Child Bks	Yout hBks	Coo kBks	Dolt YBks	Ref Bks	ArtBks	GeogBks			
	0	1	0	1	0	0	1			
	1	0	0	0	0	0	0			
	0	0	0	0	0	0	0			
	1	1	1	0	1	0	1			
	0	0	1	0	0	0	1			
	1	0	0	0	0	1	0			
	0	1	0	0	0	0	0			
	0	1	0	0	1	0	0			
	1	0	0	1	0	0	0			
	1	1	1	0	0	0	1			
	0	0	0	0	0	0	0			
	0	0	1	0	0	0	1			
	1	0	0	0	0	1	0			
	criteria 1. 2.		rt 70% rt 50%	; Conf	idence	e 60%	n rules for t	he following		

3.	R. Which o correlation	ne will you choose between AdvExp a	e as your targe and Sales. Bui	an excel file. Load it in et variable? What is the ld the regression model to visualize the results.	Understanding, Applying, Creating	CO1, CO3, CO4
	Time	AdvExp	Sales			
	1	25	92.8			
	2	0	79.2			
	3	15	84.5			
	4	10	83			
	5	20	88.1			
	6	10	83.9			
	7	5	79.9			
	8	5	81.1			
	9	15	86.4			
	10	15	86.3			
	11	5	79.9			
	12	20	86.6			
	13	15	85.4			
	14	5	80.5			
	15	10	83.5			

BAN11002	INTRODUCTION TO DATA	L	Т	Р	C
	ANALYTICS				
Version 1.0	Contact Hours - 30	0	0	4	2
Pre-requisites/Exposure	Basic Calculation Skills				
Co-requisites					
Academic Year	2021-22				

- 1. To understand the basic concepts and theories of descriptive analytics.
- 2. To gain a deeper insight of predictive analytics and regression techniques.
- 3. To expand individual knowledge of supervised and unsupervised learning techniques.
- 4. To understand time series forecasting and its applications.

Course Outcomes:

On completion of this course, the students will be able to:

- CO1: Discuss the fundamental concepts of descriptive analytics, probability and sampling.
- CO2: Explain predictive analytics with the help of different regression techniques.
- CO3: Evaluate the use of different Supervised and Unsupervised techniques.
- CO4: Illustrate the importance of time series forecasting and relevant applications.

Course Description:

The concept of data and analytics is now part of the business lexicon. Organisations are integrating data science and analytics in their operations and have already seen big wins. Yet only a minority of business managers have perfected the practice of using data to manage information and performance. This course will provide an overview of various data analysis tools which are available to business managers to solve a wide variety of business problems.

Course structure:

UNIT -- I Introduction to Data Analytics: 10 Hrs

Introduction to business analytics: Descriptive analytics: Data types and Scales, Population and sample, Measures of central tendency, Measures of variation, Measures of shape, Data visualization; Sampling Methods, Introduction to probability: Fundamental concepts in probability, Normal distribution, Central limit theorem, Estimation of population parameters; Confidence Intervals; Hypothesis Testing: One tailed and two tailed test, Type I error and type 2 error

UNIT- II Introduction to Predictive Analytics: 8 Hrs

Introduction to predictive analytics, Simple linear regression: Simple linear regression model building, Estimation of parameters, Interpretation of simple linear coefficients, Validation of simple linear regression model, Outlier analysis. Simple Linear regression and multiple linear regressions for prediction. Logistic Regression (Supervised learning): Introduction and Model building, Model Diagnostics, Classification table

UNIT- III Advanced Concepts in Machine Learning: 7 Hrs

Decision Tress (Supervised learning): Introduction and Model building, Clustering (Unsupervised learning): Introduction to unsupervised learning, Distance and dissimilarity measures in clustering, Clustering algorithm K Mean and Hierarchical.

Unit- IV: Time Series Forecasting: 5 Hrs

Forecasting Techniques: Time series modeling, Forecasting Techniques and Forecasting Accuracy, Moving average method

Reference Books:

TH 1. U. Dinesh Kumar: Business Analytics TH 2. David S. Rubin & Levin: Statistics for Management

Project:

The class will be divided into Groups consisting of 5 members each. Each group will be given a topic which will analyze one real life scenario. The Group will have to collect data based on a survey/from social-media and then they will have to analyze the data based on the queries taught during the sessions. Each group will present before all student as a result all students should have an idea of different real life scenarios and how to analyze the data.

Modes of Evaluation: Quiz/Assignment/presentation/Written Examination Examination Scheme:

Components	Mid Term	Class Assessment	End Term
Weightage (%)	20	30	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

	Mapping between COs and POs	
	Course Outcomes (COs)	Mapped Program Outcomes
C01	Discuss the fundamental concepts of descriptive analytics, probability and sampling.	PO1, PO2, PO6, PO8, PSO1
CO2	Explain predictive analytics with the help of different regression techniques.	PO1, PO2, PO6, PO7, PO8, PSO1, PSO2, PSO3
CO3	Evaluate the use of different Supervised and	PO1, PO2, PO6, PO7, PO8, PSO1, PSO2,

	Unsupervis	sed tec	hniqu	es.							PSO3	
CO4	CO4Illustrate the importance of time series forecasting and relevant applications.PO1, PO2, PO3, P PO7, PO8, PSO PSO2, PSO3)1,				
		Domain Knowledge	Problem Solution	Leadership and Organization Skills	Ethics and Governance	Environment and Sustainability	Life-long Learning	Creativity and Innovation	Employability	Create capabilities of converting theoretical knowledge and data into practical applications with help of analytical tools and techniques.	Keep abreast of trans-disciplinary trends which can be brought to bear in creating strategic and tactical benefits in a VUCA world.	Develop competencies to be socially responsible business professionals.
Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 03
BAN11002	Introduction to data analytics	3	3	1	-	-	3	2	2	3	2	2

1= weakly mapped

2= moderately mapped

3=strongly mapped

Enrolment No:



ADAMAS UNIVERSITY SCHOOL OF BUSINESS & ECONOMICS END SEMESTER EXAMINATION

Course: BAN11002 – Introduction to Data Analytics

Program: BBA (Business Analytics) Time: 03 Hrs. Semester: IV Max. Marks: 50

Instructions:

Attempt All Questions from Section A (Each Carrying 2 Marks); any Four Questions from Section B (Each Carrying 5 Marks). Any Two Questions from Section C (Each Carrying 10 Marks).

	SECTION A (Answer All Questions)		
1.	When do you mean by Normal Distribution? Discuss few properties of the distribution	Remembering	CO1
2	In MS Excel, what functions are used to(i)Find the parameters of Linear Regression(ii)Correlation Coefficient	Remembering	CO2
3	Explain OSEMN Framework	Applying	CO3
4	Mention the different types of Data Structures	Remembering	CO4
5	If the mean and standard deviation of the population are 1000 and 200 respectively, and a sampling distribution is constructed by taking several samples of size 100, what will be the standard deviation (standard error) of the sampling distribution?	Understanding	CO4
	SECTION B		
1.	What do you mean by Confusion Matrix? Mention some cases where Classification Algorithms are used in the industry	Creating, Remembering	CO1, CO2
2	When is Stratified Sampling preferred over Random Sampling?	Creating, Applying	CO1, CO2
3.	Suppose, Demand= a + b*Price where: Demand= Quantity Demanded of a particular item Price= Price per Unit of the item Given: Covariance between Demand and Price is -4000 Mean and Standard Deviation of Demand is 50 and 5 respectively Mean and Standard Deviation of Price is 15 and 10 respectively	Creating, Applying	C01, C03, C04

	Fi	nd out th						
4.	Find the p	orobabil	ity of gett	ting 53 St	ınday ir	a leap year.	Creating	CO2
		SECT	o Questions)					
1.	Mention the examples.	e variou	Creating, Understanding	CO2				
2.	Year 2012 2013 2014 Calculate t De-seasona (i) At a r customers complained a customers (ii) The b have type and 15 ha	Q1 75 86 90 he Sease alize the estaurant s complet ed about er complet of about er complet of about er complet of about er complet ve type	Q2 60 65 72 onality Ind dataset wint, a total lained about poor foo plaint will coups of 2 od, 65 hav AB blood	Q3 54 63 66 ex for the ith the Sea of 300 c out late c od quality l be abou 200 peopl ve B bloc d. If a per	Q4598085above dsonalitycomplaiddeliverycomplaiddeliverycomplaiddeliverycomplaiddeliverycomplaiddeliverycomplaiddeliverycomplaiddeliverycomplaiddeliverycomplaiddeliverycomplaiddeliverycomplaidc	been given below: ataset. Index obtained above nts were received. 240 of the items and 100 late the probability that late delivery and food stributed as follows: 50 70 have O blood type m this group is selected is person has O blood	Applying Understanding, Applying, Creating	CO4 CO1, CO3, CO4

BAN11013	BASICS OF BUSINESS FORECASTING	L	Т	Р	С
Version 1.0	Contact Hours - 30	2	0	0	2
Pre-requisites/Exposure	Basic Computation Skills				
Co-requisites					
Academic Year	2021-22				

- 1. To understand the role of Business Forecasting in Business Analytics.
- 2. To gain a deeper insight of regression based techniques of forecasting.
- 3. To expand individual knowledge of supervised and unsupervised learning techniques.
- 4. To understand time series forecasting and its applications.

Course Outcomes:

On completion of this course, the students will be able to:

CO1. Understand the importance and purpose of Business Forecasting across Business Domains CO2. Explain predictive analytics with the help of different regression and classification techniques.

CO3. Evaluate the use of different Supervised and Unsupervised techniques.

CO4. Illustrate the importance of time series forecasting and relevant applications.

Course Description:

The concept of data and analytics is now part of the business lexicon. This course will provide an overview of various predictive analytics tools which are available to business managers to forecast sales, revenue, profit and a host of related key performance indicators. The course intends to cover a variety of business forecasting methods for different types of data and associated business objectives.

Course Structure:

Unit I: Introduction to Business Forecasting 6 L

Introduction to Forecasting, Review of Statistical Concepts, Exploring Data Patterns, Choosing Forecasting Technique

Unit II: Regression-based Techniques of Forecasting 8 L

Simple and Multiple Linear Regression, Logistic Regression

Unit III: Supervised v/s Unsupervised Learning 8 L

Supervised Learning Algorithms: Decision Trees, Random Forests, Neural Networks; Unsupervised Learning Algorithm: Clustering- k-Means and Hierarchical Clustering

Unit IV: Time Series Forecasting 8 L

Time Series Components, Forecasting Techniques- Moving Average, Blended Moving Average,

AR/MA/ARIMA, Holt-Winters, Decomposition

Text Book:-

TH 1. U. Dinesh Kumar: Business Analytics TH 2. David S. Rubin & Levin: Statistics for Management

Project:

The class will be divided into Groups consisting of 5 members each. Each group will be given a dataset to analyze one business scenario. The Group will have to analyze the data based on the concepts/tools taught during the sessions. Each group will then present their findings.

Modes of Evaluation: Quiz/Assignment/presentation/Written Examination Examination Scheme:

Components	Mid Term	Class Assessment	End Term
Weightage (%)	20	30	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

	Mapping between COs and POs	
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Understand the importance and purpose of Business Forecasting across Business Domains	PO1, PO2, PO6, PO7, PO8, PSO1
CO2	Explain predictive analytics with the help of different regression and classification techniques	PO1, PO2, PO6, PO8, PSO1, PSO2, PSO3
CO3	To expand individual knowledge of supervised and unsupervised learning techniques	PO1, PO2, PO6, PO7, PO8, PSO1, PSO2, PSO3
CO4	To understand time series forecasting and its applications	PO1, PO2, PO3, PO6, PO7, PO8, PSO1, PSO2, PSO3

		Domain Knowledge	Problem Solution	Leadership and Organization Skills	Ethics and Governance	Environment and Sustainability	Life-long Learning	Creativity and Innovation	Employability	Create capabilities of converting theoretical knowledge and data into practical applications with help of analytical tools and techniques.	Keep abreast of trans-disciplinary trends which can be brought to bear in creating strategic and tactical benefits in a VUCA world.	Develop competencies to be socially responsible business professionals.
Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 03
BAN11013	Basics of Business forecasting	3	3	1	-	-	3	2	2	3	2	2

1= weakly mapped

2= moderately mapped

3=strongly mapped

Enrolment No:



ADAMAS UNIVERSITY **SCHOOL OF BUSINESS & ECONOMICS** END SEMESTER EXAMINATION

Course: BAN11013 – Basics of Business Forecasting

Program: BBA (Business Analytics) Time: 03 Hrs.

Semester: V Max. Marks: 50

Instructions:

Attempt All Questions from Section A (Each Carrying 2 Marks); any Four Questions from Section B (Each Carrying 5 Marks). Any Two Questions from Section C (Each Carrying 10 Marks).

	SECTION A (Answer All Questions)		
1.	What is the difference between Supervised & Unsupervised Learning?	Remembering	CO3
2	Explain the concept of training and validation datasets in context of business forecasting	Remembering	CO1
3	The mean of seven observations is 8. A new observation 16 is added. What is the mean of eight observations now?	Applying	CO2
4	Mention the functional form of Logistic Regression? What is odd's ratio?	Remembering	CO2
5	What are the different methods of forecasting time series data?	Understanding	CO4
	SECTION B		
1.	Suppose, Demand= a + b*Price where: Demand= Quantity Demanded of a particular item Price= Price per Unit of the item Given: Covariance between Demand and Price is -4000 Mean and Standard Deviation of Demand is 50 and 5 respectively Mean and Standard Deviation of Price is 15 and 10 respectively Find out the values of 'a' and 'b'	Creating, Applying	CO2
2	What do you mean by stationarity of a time series dataset? How do you convert a non-stationary series into a stationary series?	Understanding	CO4
3.	Explain the concept of confusion matrix in the context of Classification Algorithms.	Understanding	CO2
4.	When do you mean by Normal Distribution? Discuss few properties of the distribution	Remembering, Understanding	CO1
	SECTION C (Attempt any Two Questions)		

1.	Mention th examples.	e vario	s. Explain with relevant	Remembering, Understanding	CO3, CO4			
2.	Quarterly of	lemand	been given below:	Understanding,	CO4			
	Year	Q1	Q2	Q3	Q4		Applying	
	2012	75	60	54	59			
	2013	86	65	63	80			
	2014	90	72	66	85			
	Calculate t De-seasona		ataset. Index obtained above					
3.	What are	the var	ious steps	involved	in data	analysis?	Understanding,	CO1,
	Mention algorithms					Predictive analytics urse	Applying, Creating	CO3, CO4

BAN11011	BIG DATA VISUALIZATION	L	Т	Р	С		
Version 1.0	Contact Hours - 30	1	0	2	2		
Pre-requisites/Exposure	Computation Skills, Basic Programming Skills						
Co-requisites							
Academic Year	2021-22						

- 1. To understand the basic concepts of Big Data and Data Engineering.
- 2. To gain a deeper understanding of Big Data Frameworks and Ecosystem.
- 3. To develop hands-on experience of working in Big Data processing tools.
- 4. To apply the knowledge learnt in different business scenarios.

Course Outcomes:

On completion of this course, the students will be able to:

CO1. Understand characteristics of Big Data

CO2. Understand Big Data Framework and Ecosystem

CO3. Understand Data Engineering with Hadoop and Spark

CO4. Identify and integrate more than one techniques to enhance the performance of learning

Course Description:

Big Data has a major impact on businesses worldwide, with applications in a wide range of industries such as healthcare, insurance, transport, logistics, and customer service. The course is designed to give students in-depth knowledge of the flexible and versatile frameworks on the Hadoop ecosystem and big data engineering tools like Data Model Creation, Database Interfaces, Advanced Architecture, Spark, SparkSQL, Spark Streaming, Spark ML, GraphX, Sqoop, Flume, Pig and Hive. This course will also teach students to model data, perform ingestion, replicate and share data using database management system.

Course Structure:

Unit I: Introduction to Big Data 6 L

Data Storage and Analysis - Characteristics of Big Data – Big Data Analytics - Typical Analytical Architecture – Requirement for new analytical architecture – Challenges in Big Data Analytics – Need of big data frameworks

Unit II: Hadoop Framework & Ecosystem 8 L

Requirement of Hadoop Framework, Design principle of Hadoop, Hadoop Components, HDFS Commands, Map Reduce Programming, Databases: HBase, Hive, Scripting language: Pig, Streaming: Flink, Storm

Unit III: Spark Framework 8 L

Introduction to GPU Computing, CUDA Programming Model, CUDA API, Simple Matrix, Multiplication in CUDA, CUDA Memory Model, Shared Memory Matrix Multiplication, Additional CUDA API Features, Writing Spark Application - Spark Programming in Scala, Python, R, Java

Unit IV: Spark SQL and GraphX 8 L

SQL Context – Importing and Saving data – Data frames – using SQL – GraphX overview – Creating Graph – Graph Algorithms. Overview – Errors and Recovery – Streaming Source – Streaming live data with spark

Text Book:-

1. Ethem Alpaydin,"IntroductiontoMachineLearning",MITPress,PrenticeHallofIndia, Third Edition2014.

2. Mehryar Mohri, Afshin Rostamizadeh, Ameet Talwalkar "Foundations of Machine Learning", MIT Press,2012.

3. Tom Mitchell, "Machine Learning", McGraw Hill, 3rdEdition, 1997.

4. CharuC.Aggarwal, "DataClassificationAlgorithmsandApplications", CRCPress, 2014.

5. Charu C. Aggarwal, "DATA CLUSTERING Algorithms and Applications", CRC Press, 2014.

6. Kevin P. Murphy "Machine Learning: A Probabilistic Perspective", The MIT Press, 2012

7. Jiawei Hanand Micheline Kambers and Jian Pei, "Data Mining Concepts and Techniques", 3rd edition, Morgan Kaufman Publications, 2012

Project:

The class will be divided into Groups consisting of 5 members each. Each group will be given a dataset to analyze one business scenario. The Group will have to analyze the data based on the queries taught during the sessions. Each group will then present their findings.

Modes of Evaluation: Quiz/Assignment/presentation/Written Examination Examination Scheme:

Components	Mid Term	Class Assessment	End Term
Weightage (%)	20	30	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

	Mapping between COs and POs												
		Cours	se Ou	tcome	es (CC)s)					d Progra tcomes	m	
CO1	Understand characteristics of Big Data									PO1, PO2, PO6, PO7, PO8, PSO1			
CO2	Understand Big Data Framework and Ecosystem									PO1, PO2, PO6, PO8, PSO1, PSO2, PSO3			
CO3	Understand Dat	a Engi	neerii	ng wit	h Hac	loop a	nd Sp	ark		,	2, PO6, P 1, PSO2, 1	·	
CO4	Identify and interest of the per-	-				chniqı	ues to			07, PO8	2, PO3, P , PSO1, P PSO3		
Course Code	Course Title	Domain Knowledge	Problem Solution	Ecadership and Organization Skills	Ethics and Governance	Environment and Sustainability	90d Life-long Learning	Creativity and Innovation	Employability 80d	Create capabilities of converting theoretical knowledge and data into practical applications with help of analytical tools and techniques.	 Keep abreast of trans-disciplinary trends which can be brought to bear in creating strategic and tactical benefits in a VUCA world. 	 B Develop competencies to be socially responsible business D professionals. 	
BAN11011	Big data visualization	3	3	1	-	_	3	2	2	3	2	2	

1= weakly mapped

2= moderately mapped 3=strongly mapped

Nan	ne:								
Enr	olment No:	MAS RSITY CELLENCE							
	ADAMAS UNIVERSITY SCHOOL OF BUSINESS & ECONOMICS END SEMESTER EXAMINATION Course: BAN11011 – Big Data Visualization								
Pro	C	nester: V							
Tin	ne: 03 Hrs. Ma	x. Marks: 50							
Atte	tructions: empt All Questions from Section A (Each Carrying 2 Marks); any I tion B (Each Carrying 5 Marks). Any Two Questions from Sectio ks).								
	SECTION A (Answer All Questions)								
1.	What are the features of Big Data?	Remembering	CO1						
2	Why businesses are using Big Data for competitive advantage?	Remembering	CO1						
3	Explain the importance of Hadoop technology in Big data analytics	Applying	CO2						
4	Explain the core components of Hadoop	Remembering	CO3						
5	Mention the different kinds of data models	Understanding	CO1						
	SECTION B								
1.	What are the different ecosystems of Spark?	Remembering	CO3						
2	What are the three modes that Hadoop can run?	Understanding, Applying	CO2						
3.	How does the Spark Streaming API work?	Understanding	CO3						
4.	Mention the common input formats in Hadoop.	Remembering, Understanding	CO4						
	SECTION C (Attempt any Two Questions)								
1.	How to deploy a Big Data Model? Mention the key steps involved	Understanding, Remembering	CO1, CO4						
2.	When can Apache Spark be used? What are the advantages of Spark over Mapreduce?	f Understanding, Remembering	CO3, CO4						

3.	Differentiate between Spark and Hadoop as a Data Engineering		
	tool	Remembering	CO4

BAN11014	CLOUD COMPUTING	L	Т	Р	С		
Version 1.0	Contact Hours - 30	0	0	2			
Pre-requisites/Exposure	Basic Computation Skills, Basic Programming Skills						
Co-requisites							
Academic Year	2021-22						

- 1. To gain essential knowledge on characteristics and benefits of Cloud Computing
- 2. To understand the various Cloud Service Providers and Components of Cloud Infrastructure
- 3. To gain a deeper insight on concepts like Cloud Security, Encryption and Monitoring
- 4. To develop understanding on the emerging trends in Cloud Computing

Course Outcomes:

On completion of this course, the students will be able to:

CO1. Understand the unique features of Cloud Computing

CO2. Understand key concepts related to the components of Cloud Infrastructure, Cloud

Security, Encryption and Monitoring

CO3. Focus on the emerging trends of Cloud Computing

CO4. Learn cloud adoption strategies by leading global organizations

Course Description:

This course aims to provide a basic understanding of various cloud computing technologies which are in use currently. The course will cover the various components of cloud computing ecosystem, service providers and the various service & deployment models which are in place. The course will also cover relevant used cases of organizations who have migrated to cloud computing and focus on the benefits that have accrued to them over the years.

Course Structure:

Unit I: Overview of Cloud Computing 6 L

Definition and essential characteristics of Cloud Computing, brief history and evolution of Cloud, Key cloud service providers and their services, Cloud Computing Service (IaaS, PaaS, SaaS) and Deployment Models (Public, Private, Hybrid)

Unit II: Components of Cloud Computing 8 L

Cloud Infrastructure Overview, Virtualization and VMs, Secure Cloud Networks, Containers, Cloud Storage- Direct Attached, File Storage, Block Storage, Object Storage, Content Delivery Networks

Unit III: Cloud Security 8 L

Cloud Security and Encryption, Monitoring

Unit IV: Emerging Cloud Trends 8 L

Hybrid Multicloud, Serverless, Microservices, Cloud Native, DevOps, Application modernization, Discussion on relevant case studies from industry

Text Book:-

1. Thomas Erl: Cloud Computing: Concepts, Technology and Architecture

Project:

The class will be divided into Groups consisting of 5 members each. Each group will be given a case study on cloud adoption by global organizations. The Group will have to analyze the case based on the cloud computing concepts taught during the sessions. Each group will then present their views and findings.

Modes of Evaluation: Quiz/Assignment/presentation/Written Examination Examination Scheme:

Components	Mid Term	Class Assessment	End Term		
Weightage (%)	20	30	50		

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

	Mapping between COs and POs	
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Understand the unique features of Cloud Computing	PO1, PO2, PO6, PO7, PO8, PSO1
CO2	Understand key concepts related to the components of Cloud Infrastructure, Cloud Security, Encryption and Monitoring	PO1, PO2, PO6, PO8, PSO1, PSO2, PSO3
CO3	Focus on the emerging trends of Cloud Computing	PO1, PO2, PO6, PO7, PO8, PSO1, PSO2, PSO3
CO4	Apply concepts learned in real-life business scenarios	PO1, PO2, PO3, PO6, PO7, PO8, PSO1, PSO2,

										PSO3				
Course Code	Course Title	Domain Knowledge	Problem Solution	Deadership and Organization Skills	Ethics and Governance	Environment and Sustainability	Dd Life-long Learning	Creativity and Innovation	gd gemployability	Create capabilities of converting theoretical knowledge and data into practical applications with help of analytical tools and techniques.	Keep abreast of trans-disciplinary trends which can be brought to bear in creating strategic and tactical benefits in a VUCA world.	ය ය Develop competencies to be socially responsible business professionals.		
BAN11014	Cloud computing	3	3	1	_	-	3	2	2	3	2	2		

1= weakly mapped

2= moderately mapped

3=strongly mapped

Enrolment No:



ADAMAS UNIVERSITY SCHOOL OF BUSINESS & ECONOMICS END SEMESTER EXAMINATION Course: BAN11014 – Cloud Computing

Program: BBA (Business Analytics) Time: 03 Hrs. Semester: V Max. Marks: 50

Instructions:

Attempt All Questions from Section A (Each Carrying 2 Marks); any Four Questions from Section B (Each Carrying 5 Marks). Any Two Questions from Section C (Each Carrying 10 Marks).

	SECTION A (Answer All Questions)		
1.	What are the advantages of using cloud computing?	Remembering	CO1
2	Mention platforms which are used for large scale cloud computing?	Remembering	CO3
3	Explain different models for deployment in cloud computing?	Applying	CO2
4	What are system integrators in Cloud Computing?	Remembering	CO2
5	What is the difference in cloud computing and computing for mobiles?	Understanding	CO2
	SECTION B		
1.	List out different layers which define cloud architecture?	Remembering	CO2
2	What are the security aspects provided with cloud?	Understanding, Applying	CO2
3.	What is the use of API's in cloud services?	Understanding	CO3
4.	Mention some open source cloud computing platform databases?	Remembering, Understanding	CO4
	SECTION C (Attempt any Two Questions)		
1.	Before going for cloud computing platform what are the essential things to be taken in concern by users?	Understanding, Remembering	CO1, CO4
2.	a) What are the characteristics of cloud architecture that separates it from traditional one?	Understanding, Remembering	CO2, CO3
	b) Mention what is the difference between elasticity and scalability in cloud computing?		
3.	a) In cloud architecture what are the different components that are	Understanding, Remembering	CO2, CO4

required?	
b) Mention what is Hypervisor in cloud computing and their	
types?	

BAN11009	PYTHON PROGRAMMING	L	Т	Р	С		
Version 1.0	Contact Hours - 30 1 0 2						
Pre-requisites/Exposure	Basic Calculation Skills, Basic Programming Skills						
Co-requisites							
Academic Year	2021-22						

- 1. To understand the basic concepts of Python programming.
- 2. To gain a deeper understanding of using Python for accessing data from different files and performing complex operations.
- 3. To develop an understanding of visualizing data using Python for better analysis.
- 4. To apply the knowledge learnt in different business scenarios.

Course Outcomes:

On completion of this course, the students will be able to:

CO1. Explain the fundamental concepts of Python programming.

CO2. Recognize the use of different commands in Python for processing data and analyzing it in business scenarios.

CO3. Make use of different commands in Python for visualizing the results.

CO4. Assess the use of Python commands for machine learning related cases in various business scenarios.

Course Description:

With the increasing demand for data analytics, the need for utilizing open source programming software like Python is slowing increasing for data analysis. This course will prepare the students to understand how to program in Python and utilize this knowledge to analyze data in different business oriented scenarios. All the lectures contain a blend of discussions on basic theories and advanced topics, focusing on practical implementation of knowledge. Classes will be conducted by lecture as well as power point presentation as per requirement. The tutorials will familiarize the students with practical problem-solving techniques. Students will be able to gain a strong understanding of the course via theoretical sessions, case study discussions, problem solving and discussions with the coordinator.

Course Structure:

Unit I: 8 L

Introduction; Getting and Installing Python platform; Role of Python Programming for Data Science; Getting an overview of some basic operations in Python; Overview of some common Python packages; Variables in Python; Python basic data types; Numeric Operations using Python

Unit II: 8 L

File Handling in Python- Importing & Exporting Datasets; Finding Missing Values; Data Manipulation; Descriptive Statistics using Python; Analyze business cases using Python

Unit III: 6 L

Data Visualization using Python using Matplotlib and Seaborn; Business case discussion.

Unit IV: 8 L

Machine Learning using Python; Linear Regression; Time Series; Logistic Regression

Text Book:-

1. McKinney, W.: Python for Data Analysis- Data Wrangling with Pandas, Numpy and iPython. O'Reilly. 2nd Edition.

Project:

The class will be divided into Groups consisting of 5 members each. Each group will be given a topic which will analyze one real life scenario. The Group will have to collect data based on a survey/from social-media and then they will have to analyze the data based on the queries taught during the sessions. Each group will present before all student as a result all students should have an idea of different real life scenarios and how to analyze the data.

Modes of Evaluation: Quiz/Assignment/presentation/Written Examination Examination Scheme:

Components	Mid Term	Class Assessment	End Term
Weightage (%)	20	30	50

	Mapping between COs and POs								
	Course Outcomes (COs)	Mapped Program Outcomes							
CO1	Explain the fundamental concepts of Python programming.	PO1, PO2, PO6, PO7, PO8, PSO1							

CO2 CO3	Recognize the use of different commands in Python for processing data and analyzing it in business scenarios.Make use of different commands in Python for visualizing the results.Assess the use of Python commands for machine learning related cases in various business scenarios.									PO1, PO2, PO6, PO8, PSO1, PSO2, PSO3 PO1, PO2, PO6, PO7, PO8, PSO1, PSO2, PSO3 PO1, PO2, PO3, PO6, PO7, PO8, PSO1, PSO2, PSO3			
CO4													
Course Code	Course Title	Domain Knowledge	Problem Solution	E C C C C C C C C C C C C C C C C C C C	Ethics and Governance	Environment and Sustainability	90d Life-long Learning	Creativity and Innovation	80d Employability	Create capabilities of converting theoretical knowledge and data into practical applications with help of analytical tools and techniques.	 Keep abreast of trans-disciplinary trends which can be brought to bear in creating strategic and tactical benefits in a VUCA world. 	ය යි Develop competencies to be socially responsible business professionals.	
			-		-					-	-	03	
BAN11009	Python programming	3	3	1	-	-	3	2	2	3	2	2	

1= weakly mapped

2= moderately mapped

3=strongly mapped

Name:

Enrolment No:



ADAMAS UNIVERSITY SCHOOL OF BUSINESS & ECONOMICS END SEMESTER EXAMINATION Course: BAN11009 – Python Programming

Program: BBA (Business Analytics) Time: 03 Hrs. Semester: V Max. Marks: 50

Instructions:

Attempt All Questions from Section A (Each Carrying 2 Marks); any Four Questions from Section B (Each Carrying 5 Marks). Any Two Questions from Section C (Each Carrying 10 Marks). This is an open book open laptop examination. You must submit your codes and outputs.

		SECTIO	N A (Answer All Qu	estions)				
1.	computing tool?	-	using Python as a stati		Remembering	C01		
2	Mention the popular in Python	packages use	ed for doing Feature E	ngineering	Remembering	CO2		
3	Identify two reasons	for the need	of data visualization.		Applying	CO3		
4	Which function is use	ed to find ou	t correlation in Python	1?	Remembering	CO4		
5	Compare and contrast	t between Li	near and Logistic regr	ression.	Understanding	CO4		
		SECT	ION B			I		
1.	What are the various examples.	Creating, Remembering	CO1, CO2					
2			n Python? Create suita actionality of such ope		Creating, Applying	CO1, CO2		
3.	For the dataset given sales. Build a smooth		te a scatterplot of vol e scatterplot.	ume versus				
	S	ales	Volume]				
		72	53800		Creating,	CO1,		
		98 65050						
		30	92850		Applying	CO4		
		98	97300					
		41	10590					
		56	13910	4				
		79	75892					

4.	What are th such algorit		packages and f	fication algorithms. unctions used to deploy Questions)	Applying	CO4
1.				USA_Income. It on of each of the	Creating, Understanding	CO2
	 (b) Rep note scre (c) Are (d) Find addi Per For all the a correspondi spreadsheet	e of the structure of enshot. there any missing l Per Capita Incon- tional column in Capita Income ar	of the dataset. F g values in the me of each of th the dataset con nd export it in a questions, plea along with outp icable.	he districts. Add an taining information on spreadsheet. se provide the but screenshots and		
	State	Income	Population			
	2104	39	2104			
	1290	27	1290			
	901	20	901			
	1161	20	1161			
	647	13	647			
	637	13	637			
	506	12	506			
	412	10	412			
	409	10	409			
	425	10	425			
	537	9	537			

	372	7	372				
2.	Please refe	er to the data	set- TTA. It c	ontains the in	flow of	Applying	CO4
	internation	nal visitors ov					
	/ \ -						
	· · · •			eries Model ba			
		ving Average					
	• •		1 0	APE values of els do you cons			
		ter fit	ve mileu moue	is do you com	siuci as a		
	UCII						
		Year	Visitors_cr	Year	Visitors_cr		
		1975	0.83	1995	4.57		
		1976	0.86	1996	4.48		
		1977	0.88	1997	4.46		
		1978	0.87	1998	4.38		
		1979	0.93	1999	4.79		
		1980	1.05	2000	5.01		
		1981	1.31	2001	5.06		
		1982	1.64	2002	5.15		
		1983	2.06	2003	5.09		
		1984	1.91	2004	5.09		
		1985	2.03	2005	5.35		
		1986	2.18	2006	5.34		
		1987	2.39	2007	5.58		
		1988	2.75	2008	5.9		
		1989	3.09	2009	6.36		
		1990	3.42	2010	6.89		
		1991	3.83	2011	7.05		
		1992	3.97	2012	7.15		
		1993	3.83	2013	7.87		
		1994	4.14	2014	8.01	TT 1 / 1	CO1,
3.		•			file. Load it in	Understanding,	CO1, CO3,
					ariable? What the regression	Applying, Creating	CO4
					o visualize the	Creating	
	results.	interpret the	resuits. Collsu	luct a graph w) visualize ule		
	-	A du Euro	Cala				
	Time 1	AdvExp 25	Sales 92.8				
	2	0	79.2				
	3	15	84.5				
	4	10	83				
	5	20	88.1				
	6	10	83.9				
	7 8	5	79.9 81.1				
	9	5 15	81.1				

10	15	86.3
11	5	79.9
12	20	86.6
13	15	85.4
14	5	80.5
15	10	83.5

BAN11012	VISUAL PREDICTIVE ANALYTICS	L	Т	Р	С
Version 1.0	Contact Hours - 30	1	0	2	2
Pre-requisites/Exposure	Basic Analytical Skills, Presentation Skills				
Co-requisites					
Academic Year	2021-22				

Course Objectives

- 1. To understand the role of Visualization in Business Intelligence.
- 2. To understand the various chart types/widgets available to depict key performance indicators.
- 3. To develop hands-on experience of developing dashboards using Tableau and PowerBI.
- 4. To apply the knowledge learnt in different business scenarios.

Course Outcomes:

On completion of this course, the students will be able to:

CO1. Understand various chart types and widgets available to present information

- CO2. Create Interactive and Easy-to-Use Dashboards
- CO3. Develop Hands-On experience of working on Tableau and PowerBI
- CO4. Apply concepts/tools learned in real-life business scenarios

Course Description:

The course aims to cover visualization tools like Tableau and PowerBI in the areas of charting, dates, table calculations and mapping. The students will be taught to explore the best choices for charts, based on the type of data one is using. Specific types of charts will be looked into, including scatter plots, Gantt charts, histograms, bullet charts and several others. Charting guidelines, connecting multiple data sources, creating custom parameters and quick table calculations will also be covered.

Course Structure:

Unit I: Introduction to Visualization 6 L

Role of Visualization in Business Intelligence, Story Telling Using Dashboards, Understand Key Performance Indicators across different business domains, Introduction to Various Chart Types and their applications

Unit II: Creating Visualizations with Tableau8 L

Introduction to Tableau, installing Tableau, importing data, connecting multiple data sources, creating widgets as per data type

Unit III: Creating Visualizations with PowerBI 8 L

Introduction to PowerBI, installing PowerBI, importing data, connecting multiple data sources, creating tiles as per data type

Unit IV: Creating Interactive Dashboards Using Tableau and PowerBI 8 L

Create Interactive Dashboards based on requirement, Overall guidelines to build user-friendly dashboards, managing and exploring color scheme and overall theme of dashboards

Text Book:-

- 1. Joshua N. Milligan, Learning Tableau 2019: Tools for Business Intelligence, Data Prep and Visual Analytics, 3rd Edition
- 2. Ferrari Alberto, Russo Marco- Analyzing Data with Microsoft PowerBI and Power Pivot for Excel

Project:

The class will be divided into Groups consisting of 5 members each. Each group will be given a dataset to analyze one business scenario. The Group will have to analyze the data based on the concepts/tools taught during the sessions. Each group will then present their findings.

Modes of Evaluation: Quiz/Assignment/presentation/Written Examination Examination Scheme:

Components	Mid Term	Class Assessment	End Term
Weightage (%)	20	30	50

	Mapping between COs and POs	
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Understand various chart types and widgets available to present information	PO1, PO2, PO6, PO7, PO8, PSO1
CO2	Create Interactive and Easy-to-Use Dashboards	PO1, PO2, PO6, PO8, PSO1, PSO2, PSO3
CO3	Develop Hands-On experience of working on Tableau and PowerBI	PO1, PO2, PO6, PO7, PO8, PSO1, PSO2, PSO3
CO4	Apply concepts/tools learned in real-life business scenarios	PO1, PO2, PO3, PO6, PO7, PO8, PSO1, PSO2, PSO3

		Domain Knowledge	Problem Solution	Leadership and Organization Skills	Ethics and Governance	Environment and Sustainability	Life-long Learning	Creativity and Innovation	Employability	Create capabilities of converting theoretical knowledge and data into practical applications with help of analytical tools and techniques.	Keep abreast of trans-disciplinary trends which can be brought to bear in creating strategic and tactical benefits in a VUCA world.	Develop competencies to be socially responsible business professionals.
Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 03
BAN11012	Visual predictive analytics	3	3	1	-	-	3	2	2	3	2	2

1= weakly mapped

2= moderately mapped

3=strongly mapped

Name:

Enrolment No:



ADAMAS UNIVERSITY SCHOOL OF BUSINESS & ECONOMICS END SEMESTER EXAMINATION

Course: BAN11012 – Visual Predictive Analytics

Program: BBA (Business Analytics) Time: 03 Hrs. Semester: V Max. Marks: 50

Instructions:

Attempt All Questions from (Each Carrying 25 Marks). This is an open book open laptop examination. You must submit your codes and outputs.

•	initiation. Tou must submit your codes and outputs.		
1.	Refer to the mtcars dataset (attached here). Import the file in		
	Tableau. Please create:		
	a) Pie-chart of cars by carb		CO1,
	b) Barplot depicting count of cars by gears	Applying	CO2, CO3,
	c) Distribution of cars by gears and cylinders		CO3, CO4
	d) Scatter plot of weight v/s mpg		
	e) Create an interactive dashboard bringing in all the above		
	widgets with car name as filter		
2	Refer to the gdp dataset (attached here). Import the file in		
	PowerBI. Please create:		
	a) Scatter Plot between PCI (GDP per Cap) & Life Expectancy		CO1,
	b) Barplot of Average Life Expectancy across Continents	A nultrin a	CO2,
	c) Histogram/Frequency Distribution/Density Plot of Life	Applying	CO3,
	Expectancy		CO4
	d) Pie-Chart of Population Share by Continent		
	e) Create an interactive dashboard bringing in all the above		
	widgets/tiles with Year, Country and Continent as filters		
		•	•





gdp.csv



MGT11003	Business Ethics & Corprate Governance	L	Τ	Р	С
Version 1.0,	Contact Hours - 60	3	1	0	4
Scheme: 2020-21					
Pre-requisites/Exposure	Business Law 1, Business Ethics & Values				
Co-requisites					

Course Objectives:

- 1. To understand what is a corporation, types of ownership and the concept of corporate governance.
- 2. To gain exposure to the various laws and norms applicable in rendering effective corporate governance.
- 3. To enable students to identify sustainability and CSR issues and to design, conduct and evaluate sustainability assessment for policy making.

Course Outcomes

At the end of the course, the student will be able to:

- **CO1 Describe** what is a corporation, types of ownership and the concept of Corporate governance
- **CO2** Summarize the concept of Board of directors, types of directors, differences among them, their remuneration, their rights etc. as per the Companies Act, 2013
- **CO3** Explain the concepts of financial oversight and audit mechanism, Role of SEBI, Risk management, Misgovernance, Whistle-blowers' protection etc.
- **CO4 Interpret** the meaning, history, concept, evolution etc. of CSR, as well as CSR in India, relevant codes and initiatives
- CO5 Compare CSR-Legislation In India & the world and analyse the scope for CSR Activities under Schedule VII
- **CO6** Combine the knowledge of CSR in India, and successful corporate initiatives & challenges of CSR to gain unique insights.

Course Description:

The course seeks to develop a sound understanding of the concepts of corporate governance and sustainable organisations. The objective is to expose the students to various issues, norms



and laws related to corporate governance. It attempts to establish a scientific base in sustainable development and policy-making as a strategic tool in organisations. It presents the main questions and answers related to sustainability, the theories describing them and the empirical work and the history, need and benefits of Corporate Social Responsibility.

Course Structure:

MODULE I

Introduction to the concept of corporations, extended view of corporate citizenship. Owners and stakeholders: Types of owners, Rights and privileges of shareholders, Ownership structures and corporate governance, Perspectives on Corporate Governance: Theoretical background, Market and control model of governance chain

MODULE II

Board of Directors: Types of Directors, Importance of Independent Directors, Board Committees and Chairman: Separation OF CEO & Board Chairman post, Nomination Committee, Board Selection, Boards Performance Evaluation, Executive Compensation: Role of Remuneration Committee, Human Side of Governance

MODULE III

Financial Oversight and Audit Mechanisms: Audit Committee, Disclosure mechanisms, Role of SEBI, Governance and Risk Management, Risk Management Committee, Corporate Misconduct & Misgovernance: Reasons for Corporate Misconduct, Whistle Blower's Protection, Factors Responsible for Obstructing Effective Corporate Governance Practices

MODULE IV

Introduction to CSR: Meaning & Definition of CSR, History & evolution of CSR. Concept of Charity, Corporate philanthropy, Corporate Citizenship, relation between CSR and Corporate governance; environmental aspect of CSR; Chronological evolution of CSR in India; major codes on CSR; Initiatives in India.

MODULE V

CSR-Legislation In India & the world. Section 135 of Companies Act 2013.Scope for CSR Activities under Schedule VII, Appointment of Independent Directors on the Board, and Computation of Net Profit's Implementing Process in India.

MODULE VI

The Drivers of CSR in India, Market based pressure and incentives civil society pressure, the regulatory environment in India Counter trends. Review current trends and opportunities in CSR.CSR as a Strategic Business tool for Sustainable development. Review of successful corporate initiatives & challenges of CSR. Case Studies of Major CSR Initiatives.

Text Books

(9 Hours)

(9 Hours)

(9 Hours)

(9 Hours)

(9 Hours)

(9 Hours)



T1. Fernando, A.C.: Corporate Governance- Principles, Policies and Practices, ed. Pearson Education.

T2. Corporate Governance in India - Jayati Sarkar, Subrata Sarkar, Sage Publications

T3. Corporate Social Responsibility in India - Sanjay K Agarwal

T4. Corporate Social Responsibility: Concepts and Cases: The Indian - C. V. Baxi, Ajit Prasad

Modes of Examination: Assignment/Quiz/Project/Presentation/Written Exam

Examination Scheme:

Components	Internal	Attendance	Mid Term	End Term
Weightage (%)	30	00	20	50

	Mapping between COs and POs						
	Course Outcomes (COs)	Mapped Program Outcomes					
C01	Understand what is a corporation, types of ownership and the concept of Corporate governance	PO1, PO3, PSO2					
CO2	Describe the Board of directors, types of directors, differences among them, their remuneration, their rights etc. as per the Companies Act, 2013	PO1					
CO3	Concepts of financial oversight and audit mechanism, Role of SEBI, Risk management, Misgovernance, Whistle-blowers' protection etc.	PO1, PO3, PO4, PSO1, PSO3					
CO4	Meaning, history, concept, evolution etc. of CSR. CSR in India, codes and initiatives	PO1, PO4, PO5					
CO5	CSR-Legislation In India & the world. Scope for CSR Activities under Schedule VII	PO3, PO5, PSO3					
CO6	Knowledge of CSR in India, successful corporate initiatives & challenges of CSR.	PO2, PO5, PO6, PO7, PSO1, PSO3					



	-			-			-	-			
		Management Knowledge	Problem Solution	Leadership and Organization Skills	Ethics	Environment and Sustainability	Life-long Learning	Creativity and Innovation	Prepare basic knowledge, skills, tools and techniques to enable them to take up higher studies and research.	Development of entrepreneurial skills and spirit.	Develop competencies to be socially responsible business professionals
Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1	PSO 2	PSO3
MGT11003	Business Ethics & Corporate Governance	1	1	2	3	3	1	1	1	2	3

1=weakly mapped

2= moderately mapped

3=strongly mapped



Model Question Paper

Nam Enre	ne: olment No: Course: MGT11003 Business Ethics & Corporate Governar		LAS ITY LENGE					
	Program: BBA Time: 03 Hrs. Semester: V Max. Marks: 50							
Atte	ructions: mpt all questions from Section A (each carrying 2 marks); any Four Questions from ring 5 marks), and any Two Questions from Section C (carrying 10 marks).	Section	n B (each					
	Section A (Attempt ALL questions)							
1.	What is the Indian equivalent of 'Tzedakah' in Judaism?	2	CO4					
2.	Name two major differences between Equity shareholders and Preference shareholders	2	CO1					
3.	Which country has a mandatory legal code on CSR?	2	CO4					
4.	Name two Intergovernmental organisations which have a role driving SR activities.	2	CO3					
5.	What is the minimum number of directors required for a public limited company?	2	CO2					
	SECTION B (Attempt any Four Questions)							
6.	Describe the Stewardship Theory of Corporate Governance.	5	CO2					
7.	What is Organizational misconduct? What are the main reasons for such misconduct?	3 2	CO3 CO3					
8.	Explain the role and importance of the 'Nomination Committee'.	3 2	CO2 CO2					
9.	Explain the role of 'Responsible Investing' as a driver of CSR. Please provide an example for illustration .	4 1	CO6 CO6					
10.	Describe the evolution of Corporate Social Responsibility.	5	CO4					
11.	Explain the major responsibilities of a Corporation.	5	C01					
	SECTION C (Attempt any One Question)							
12.	Describ e the concept of 'Whistle Blower's Protection'. What is the Indian legal code for 'Whistle Blower's Protection' and what are its provisions?	4 2 4	CO3 CO3 CO3					



13.	What are the qualifications for Independent Directorship under the Companies Act, 2013? Please describe in your own words the rationale for each of these provisions.	5 5	CO2 CO2
14.	Case: Satyam scandal		
	 <u>Initial confession and charges</u> On 7 January 2009, the chairman of Satyam, Byrraju Ramalinga Raju, resigned, confessing that he had manipulated the accounts of Rs 14,162 crore in several forms. The global corporate community was said to be shocked and scandalised. In February 2009, CBI took over the case and filed three partial charge sheets (dated 7 April 2009, 24 November 2009, and 7 January 2010), over the course of the year. All charges arising from the discovery phase were later merged into a single charge sheet. On 10 April 2015, Byrraju Ramalinga Raju was convicted with 10 other members. <u>Role of Auditors</u> PricewaterhouseCoopers affiliates served as independent auditors of Satyam Computer Services when the report of scandal in the account books of Satyam Computer Services broke. The Indian arm of PwC was fined \$6 million by the SEC (US Securities and Exchange Commission) for not following the code of conduct and auditing standards in the performance of its duties related to the auditing of the accounts of Satyam Computer Services. In 2018, SEBI (Securities and Exchange Board of India) barred Price Waterhouse from auditing any listed company in India for 2 years, saying that the firm was complicit with the main perpetrators of the Satyam fraud and did not comply with auditing standards. SEBI also ordered disgorgement of over Rs 13 crore wrongful gains from the firm and two partners. PwC announced their intent to get a stay order. 		
	 Questions: a) Describe the major issues in this case in terms of the principles of: i) Corporate Governance, and ii) Corporate Social Responsibility b) What are your suggestions to ensure that such failures are not repeated in future? 	4 2 4	CO1/CO3 CO4 CO1/CO3/CO4



MGT11025	International Business		Τ	P	С		
Version 1.0	Contact Hours - 60	3	1	0	4		
Pre-requisites/Exposure	Basic Knowledge of Economics and Marketing						
Co-requisites							

Course Objectives:

- 1. This course provides an overview of the importance of international business and trade in the global economy.
- 2. Students will learn various international trade theories.
- 3. It explores the factors that influence success in international markets.
- 4. Students will learn about the techniques and strategies associated with marketing, distribution, and managing international business effectively.
- 5. Will learn various tariff and non-tariff barriers in trade; trade agreements, objectives and its impact international business.

Course Outcomes

On completion of this course, the students will be able to

CO1. Recognise the concepts of international business and international trade theories

CO2. Understanding globalization and its effects on international business.

CO3. Getting familiar with the operational environment of international business in foreign market.

CO4. Understanding marketing challenges in international market and adapting to these challenges.

CO5. Familiarity with tariff and non-tariff barriers, role of WTO and regional trade agreements.

Course Description:

Globalisation and information technology along with adapted mindset and attitude of the people brought paradigm shifts in international business by removing the boundaries among the countries, cultures, industries as well as disciplines that transformed the international business as a distinct discipline. These shifts brought vibrant changes among the international as well as domestic business houses. Learn about the fundamentals of international business and the global economy. Students will acquire an appreciation of the different dimensions of the global economy, understand the drivers of global business, analyse the main economic and business organisations which facilitate global business. This course is designed to include



conventional lecture sessions with other modern teaching techniques such as case study, class assignments, continuous evaluation tests, and presentation on international business of a domestic company.

Course Content:

Unit 1:

Unit II:

15 Lecture Hours

Business, Trade and the Economy: Terminology, Concepts and Business Communications Practices, The Importance of International Business, The Impact of International Business on India. Introduction to International Trade Theory: Mercantilism, Absolute Cost Advantage Theory, Comparative Cost Advantage Theory, Porter's Diamond of Advantage Theory and international Interdependence

10 Lecture Hours

Global Environment for Business: Globalization and its effects on Business, Factors Influencing Participation in International Business, Foreign Market selection process. Foreign market Entry modes: Franchising, Exporting, Licensing, International Agents, International Distributors, Cross Border Mergers & Acquisitions, Strategic Alliances, Joint Ventures

Unit III: 10 Lecture Hours

Factors Influencing Success in International Markets: Cultural Factors, Political, Economic, and Geographic Factors, Avoiding & Managing Common Mistakes & Problems, India's International Competitiveness.

Unit IV:

10 Lecture Hours

Marketing Challenges, Approaches and Distribution: Marketing Challenges in international market, Marketing Approaches, Logistics & Global Distribution network.

Unit V:

15 Lecture Hours

Understanding Integrations: Tariff and Non-Tariff barriers, General Agreement on Trade and Tariffs (GATT), General Agreement on Trade and Services (GATS). Understanding Functions of: Global Integrations- WTO. Regional Integrations: European Union (EU), North American Free Trade Agreement (NAFTA), South Asian Association for Regional Cooperation (SAARC).

Reference Books



- 1. Daniels, J.D., Radebaugh L.H., Sullivan D.P. & Prashant Salwan (2019), International Business: Environments and Operations, Pearson Hall, Delhi
- 2. P.Subba Rao, International Business, Himalaya Publishing House
- 3. Svend Hollensen and Madhumita Banerjee, Global Marketing, Pearson
- 4. Charles W L Hill. And Arun Kumar Jain (20018), International Business: competing in the global market place, 6ed.Mc Graw-Hill

Modes of Examination: Assignment/Quiz/Project/Presentation/Written Exam

Examination Scheme:

Components	Internal	Attendance	Mid Term	End Term
Weightage (%)	30	10	20	40

Mapping between COs and POs							
	Course Outcomes (COs)						
CO1	Recognise the concepts of international business and international trade theories	PO1, PO2, PO3					
CO2	Understanding globalization and its effects on international business.	PO1,PO2, PO3, PSO1					
CO3	Getting familiar with the operational environment of international business in foreign market.	PO1, PO2, PO3, PO4, PO5, PO4,					
CO4	Understanding marketing challenges in international market and adapting to these challenges.	PO4, PO5, PO7, PSO8					
CO5	Familiarity with tariff and non-tariff barriers, role of WTO and regional trade agreements.	PO11, PO12					

Management Knowledge
Problem Solution
Leadership and Organization Skills
Ethics
Environment and Sustainability
: Life-long Learning
Creativity and Innovation
Prepare basic knowledge, skills, tools
and techniques to enable them to take up
Development of entrepreneurial skills and entrit
Develop competencies to be socially responsible business professionals.



Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1	PSO 2	PSO3
MGT11025	International Business	3	3	-	-	-	-	3	3	-	3

1=weakly mapped 2= moderately mapped

3=strongly mapped

Model Question Paper

Name: Enrolment No:	Course: MGT11025	ADAMAS UNIVERSITY PURSUE EXCELLENCE	ASS
Program: BBA			Ciss Fime: 3 Hrs.
Semester: V			Aax. Marks: 50
Instructions:			
	questions from Section A (ea		
Section B (each o	carrying 10 marks). Section (C is Compulsory (carry	ying 10 marks).
	Section A (Att	empt any Three)	
1.	What is diamond of national	ો	
	advantage theory? Justify		
	whether this theory is still	2	CO1
	valid in today's globalised		
	context.		
2.	What is international		
	business? What are the		
	competitive advantages of	2	CO2
	India for international		
	business?		
3.	Briefly write the factors	C	
	influences in participation of	^{of} 2	CO4
	international business to a		
A	country/company?		
4.	Discuss the various modes	2	CO3
	available for entering into a	L	



	foreign market to a firm?		
5	What refers to economic factors in terms of a foreign market? How does an economic factor can affect business of a firm in international market?	2	CO5
6	What is culture? Why culture influence preferences of customer?	2	CO4
	SECTION B	·	
7.	Who developed absolute advantage theory? Explain the concept of absolute advantage theory with the production example of two countries?	10	CO1
8.	Explain the factors affecting international business operations of a firm in global market.	10	CO4
9.	Explain the role of WTO in the context of globalisation of markets.	10	CO5
	SECTION C is Compulsory		
10.	Case Study	10	CO3

BAN11017	FINANCIAL ANALYTICS	L	Т	Р	С	
Version 1.0	Contact Hours - 30	1	0	2	2	
Pre-requisites/Exposure	Basic Programming Skills, Capital & Security Market					
	Fundamentals					
Co-requisites						
Academic Year	2020-21					

Course Objectives

- 1. To understand the basic concepts of Financial Analytics
- 2. To get acquainted with the tools and techniques used to perform Financial Analytics
- 3. To gain an understanding of applications of Machine Learning (ML) Algorithms in Financial Analytics
- 4. To understand regulatory framework of financial markets and reporting requirements

Course Outcomes:

On completion of this course, the students will be able to:

- CO1. Discuss the fundamental concepts and business applications of Financial Analytics.
- CO2. Gain hands-on experience of developing financial models using statistical packages.
- CO3. Understand applications of Machine Learning Concepts in Banking & Financial Domains.
- CO4. Understand regulatory framework of financial markets and reporting requirements.

Course Description:

The Financial Analytics Course will deliver insights into the business financial data of companies. Financial analytics is an integral part of Business Intelligence and Enterprise Performance Management. It helps in building the strategy for the company or businesses through factual data insights.

Course Structure:

Unit I: Finance Fundamentals 6 L

Capital Market Operations, Financial Markets, Applications of R and Python in Algorithmic Trading, Foundations in Fin-Tech

Unit II: Introduction to Financial Analytics 8 L

Exploratory Data Analysis in Finance, Financial Modeling & Ratio Analysis

Unit III: Advanced Financial Analytics

Credit Risk Modeling, AI/ML in Financial Services, Using ML to forecast stock prices

Unit IV: Regulatory Framework in Financial Markets 8 L

Overview of Regulatory Frameworks and Reporting

Text Book(s):-

 Financial Analytics with R: Building a Laptop Laboratory for Data Science, Dirk L. Hugen & Mark Joseph Bennett

8 L

- 2. Quantitative Financial Analytics: The Path to Investment Profits, Edward E Williams & John A. Dobelman
- 3. Python for Finance, Yves Hilpisch

Project:

The class will be divided into Groups consisting of 5 members each. Each group will be given a topic/dataset which will analyze one real life scenario. They will have to analyze the case studies based on the concepts taught during the sessions. Each group will then present its findings/observations in class.

Modes of Evaluation: Quiz/Assignment/presentation/Written Examination Examination Scheme:

Components	Mid Term	Class Assessment	End Term
Weightage (%)	20	30	50

	Mapping between COs and POs								
	Course Outcomes (COs)	Mapped Program Outcomes							
CO1	Discuss the fundamental concepts and business applications of Financial Analytics	PO1, PO2, PO6, PSO1							
CO2	Gain hands-on experience of developing financial	PO1, PO2, PO6, PO8, PSO1,							

	models using statistical packages	PSO2, PSO3
CO3	Understand applications of Machine Learning Concepts in Banking & Financial Domains	PO1, PO6, PO8, PSO1, PSO2
CO4	Understand regulatory framework of financial markets and reporting requirements	PO1, PO2, PO7, PO8, PSO1, PSO2, PSO3

Course	Course Title	Domain Knowledge	Problem Solution	Eadership and Organization Skills	Ethics and Governance	50d Environment and Sustainability	D Life-long Learning	Creativity and Innovation	6d Employability	 Create capabilities of converting theoretical knowledge and data into practical applications with help of analytical tools and techniques. 	Keep abreast of trans-disciplinary trends which can be brought to bear in creating strategic and tactical benefits in a VUCA world.	Develop competencies to be socially responsible business professionals.
Code		101	102	105	104	1.00	100	10/	100	1301	1502	03
BAN11017	Financial analytics	3	2	-	-	-	2	1	2	3	2	1

1= weakly mapped

2= moderately mapped 3=strongly mapped Name:

Enrolment No:



ADAMAS UNIVERSITY SCHOOL OF BUSINESS & ECONOMICS END SEMESTER EXAMINATION Course: BAN11017 – Financial Analytics

Program: BBA (Business Analytics) Time: 03 Hrs. Semester: VI Max. Marks: 50

Instructions:

Attempt All Questions from (Each Carrying 25 Marks). This is an open book open laptop examination. You must submit your codes and outputs.

	initiation. Tou must submit your codes and outputs.	1	1
1.	 Case Study: Please refer to the dataset- BFSI_IV. It contains the annual income of customers captured by a bank at the time of processing loan applications along with associated features related to financial transactions of customers. The objective is to build an income verification framework by a bank. BFSI_IV.csv (a) Import the file in R-Studio (b) Comment on the data structure (c) Fit a Linear Regression Model to predict the Annual Income (target variable) of customers which is dependent on its given set of features (d) Report the intercept term, coefficients and the goodness of fit measures 	Applying	CO1, CO2, CO3, CO4
2	Case Study: Please refer to the dataset- CC_Default. It contains information on credit card payments default of customers along with related financial information. The objective is to predict the probability of default of customers by fitting a Logistic Regression.	Applying	CO1, CO2, CO3, CO4

dependent on its given set of features

(d) Report the intercept term, coefficients and the goodness of	
fit measures	

BAN11015	НАДООР	L	Т	Р	C		
Version 1.0	Contact Hours - 30	1	0	2	2		
Pre-requisites/Exposure	Basic Calculation Skills, Basic Programming Skills						
Co-requisites							
Academic Year	2020-21						

Course Objectives

- 1. To understand the basic concepts of Hadoop and the need for learning Hadoop
- 2. To get acquainted with Hadoop architecture and ecosystem
- 3. To gain an understanding of relational and non-relational data stores using Hadoop
- 4. To gain an understanding of Big Data Analysis using Hadoop with different business cases

Course Outcomes:

On completion of this course, the students will be able to:

CO1. Discuss the fundamental concepts of Hadoop.

CO2. Develop an understanding of HDFS Operations & MapReduce Programming.

CO3. Illustrate the importance of relational and non-relational data stores using Hadoop.

CO4. Utilize the knowledge of Hadoop in Big Data Analysis using different business scenarios.

Course Description:

Apache Hadoop is a collection of open-source software utilities that facilitates using a network of many computers to solve problems involving massive amounts of data and computation. This course will prepare the students to understand the different Hadoop concepts and utilize this knowledge to analyze data in different business oriented scenarios. All the lectures contain a blend of discussions on basic theories and advanced topics, focusing on practical implementation of knowledge. Classes will be conducted by lecture as well as power point presentation as per requirement. Students will be able to gain a strong understanding of the course via theoretical sessions, case study discussions, problem solving and discussions with the coordinator.

Course structure:

Unit I: Fundamentals of Hadoop 8 L

Introducing Hadoop and understanding the need for Hadoop; Hadoop Overview and History; Overview of the Hadoop Ecosystem; Common use cases for Big Data in Hadoop; Reasons to adopt Hadoop; Storing Data in Hadoop; Reading and Writing data in Hadoop.

Unit II: Hadoop Architecture 10 L

Getting deeper into Hadoop; HDFS Operations; MapReduce Programming; Framework for processing data in Hadoop; Introducing Pig; Statistical Analysis using Hadoop; Solving some cases using Pig programming.

Unit III: Hadoop Databases 6 L

Hadoop and Structured Data; Hadoop and Data Warehouse; Introduction and few concepts of HBase; Applying structure to Hadoop data with Hive.

Unit IV: Big Data Analysis using Hadoop 6 L

Real-world business cases; Designing real world systems; Solving business cases using Hadoop.

Text Book(s):-

 deRoos, D., Zikopoulos, P.C., Melnyk, R.B., Brown, B., Coss, R.: Hadoop for Dummies. Wiley.

Project:

The class will be divided into Groups consisting of 5 members each. Each group will be given a topic which will analyze one real life scenario. They will have to analyze the case studies based on the concepts taught during the sessions. Each group will then present its findings/observations in class.

Modes of Evaluation: Quiz/Assignment/presentation/Written Examination Examination Scheme:

Components Mid Term		Class Assessment	End Term
Weightage (%)	20	30	50

	Mapping between COs and POs								
	Course Outcomes (COs)	Mapped Program Outcomes							
CO1	Discuss the fundamental concepts of Hadoop.	PO1, PO2, PO6, PSO1							
CO2	Develop an understanding of Pig and Hive in different business cases.	PO1, PO2, PO6, PO8, PSO1, PSO2, PSO3							
CO3	Illustrate the importance of relational and non- relational data stores using Hadoop.	PO1, PO6, PO8, PSO1, PSO2							
CO4	Utilize the knowledge of Hadoop in different business scenarios.	PO1, PO2, PO7, PO8, PSO1, PSO2, PSO3							

Course Code	Course Title	Domain Knowledge	Problem Solution	E Leadership and Organization Skills	Ethics and Governance	Environment and Sustainability	D Life-long Learning	Creativity and Innovation	Employability	 Create capabilities of converting theoretical knowledge and data into practical applications with help of analytical tools and techniques. 	Keep abreast of trans-disciplinary trends which can be brought to bear in creating strategic and tactical benefits in a VUCA world.	© G Develop competencies to be socially responsible business professionals.
BAN11015	Hadoop	3	2	-	-	-	2	1	2	3	2	1

2. 1= weakly mapped

3. 2= moderately mapped

4. 3=strongly mapped

Name:

Enrolment No:



ADAMAS UNIVERSITY SCHOOL OF BUSINESS & ECONOMICS END SEMESTER EXAMINATION

Course: **BAN11015 - Hadoop Program: BBA (Business Analytics) Time: 03 Hrs.**

Semester: VI Max. Marks: 50

Instructions:

Attempt All Questions from Section A (Each Carrying 1 Marks); any Four Questions from Section B (Each Carrying 5 Marks). Any Two Questions from Section C (Each Carrying 10 Marks).

	SECTION A (Answer All Questions)		
1.	Determine the use of Hadoop concepts in Fraud Detection.	Evaluating	CO4
2	What do you understand by structured data?	Remembering	CO3
3	Compare and contrast Hadoop with relational databases.	Evaluating, Understanding	CO3
4	Distinguish classification from clustering.	Analyzing	CO3
5	List two reasons to adopt Hadoop.	Remembering	CO1
	SECTION B (Attempt any Three Questions)		
1.	What is big data? Examine the need for Hadoop in the era of big- data.	Understanding, Analyzing	CO1
2	What are the different Pig data-types? Explain with relevant syntax.	Remembering, Understanding	CO2
3.	Explain the different Hive data-types.	Understanding	CO3
4.	Identify two emerging healthcare scenarios where Hadoop can make an impact. Explain in details	Applying, Understanding	CO4
	SECTION C (Attempt any Two Questions)		
1.	Examine machine learning with Mahoot with respect to the following scenarios: (a) Collaborative Filtering (b) Clustering (c) Classification	Analyzing	CO2
2.	Discuss the HBase Data Model and the HBase Architecture.	Creating	CO3
3.	Utilize the knowledge you gained in this course to explain how Hadoop is useful in modern era by providing examples of five business scenarios.	Applying, Understanding	CO4

BAN11018	HR ANALYTICS		T	Р	С
Version 1.0	Contact Hours - 30	1	0	2	2
Pre-requisites/Exposure	Basic Programming Skills, HR/OB Fundamen	tals			
Co-requisites					
Academic Year 2020-21					

Course Objectives

- 1. To understand the basic concepts and applications of HR Analytics
- 2. To get acquainted with the tools and techniques used to perform HR Analytics
- 3. To gain an understanding of applications of Machine Learning (ML) Algorithms in HR Analytics
- 4. To understand the role played by data-driven strategies in framing HR Policies of an organization

Course Outcomes:

On completion of this course, the students will be able to:

CO1. Discuss the fundamental concepts and business applications of HR Analytics.

CO2. Gain hands-on experience of developing metrics and dashboards for HR Teams of Organizations

CO3. Understand applications of Machine Learning Concepts in HR Domain.

CO4. Frame HR policies based on data-driven decisions.

Course Description:

With advances in technology and cloud computing, there are now numerous data sources available to guide decision-making and drive organizational success. Harvesting the right kind of data requires that HR teams possess strong analytical skills; high-performing HR teams know that their function is to leverage data as a "decision science" by identifying metrics and data sources that deliver organizational insights. In order to do so, HR must ensure that metrics and measures are used effectively to achieve strategic goals. This course focuses on identifying effective data sources, developing meaningful metrics, designing long-term measures, and applying results in support of organizational strategy and tactics

Course Structure:

Unit I: Introduction to HR Analytics6 L

HR Fundamentals, Strategic Role of HR, Basics of People Analytics, Framework for Problem Solving, Basics of Statistics

Unit II: HR Practices and Benchmarking 8 L

Important HR Metrics, HR Valuations, Benchmarking, Developing Dashboards in MS Excel, Performance and Goal Setting

Unit III: Workforce Planning and Talent Sourcing/Acquisition Analytics 8 L

Workforce Planning and its Use, Markov Chain, Scatter Plot, Trend Analysis, Concepts and Metrics- Job Analysis, Job Evaluation, Job Redesign, Predictive Modeling, Measuring Acquisition Effectiveness, Employee Training and Development Analytics

Unit IV: Talent Engagement Analytics 8 L

Major Drivers of Talent Engagement, Employee Engagement Surveys, Rewards- Key Considerations, Tracking Performance v/s Potential, Talent Retention Analytics

Text Book(s):-

- 1. Human Resource Analytics- Strategic Decision Making: Nisant Uppal
- 2. HR Analytics- Understanding Theories and Applications: Dipak Kumar Bhattacharyya

Project:

The class will be divided into Groups consisting of 5 members each. Each group will be given a topic/dataset which will analyze one real life scenario. They will have to analyze the case studies based on the concepts taught during the sessions. Each group will then present its findings/observations in class.

Modes of Evaluation: Quiz/Assignment/presentation/Written Examination Examination Scheme:

Components Mid Term		Class Assessment	End Term		
Weightage (%)	20	30	50		

	Mapping between COs and POs							
	Course Outcomes (COs)	Mapped Program Outcomes						
CO1	Discuss the fundamental concepts and business applications of HR Analytics	PO1, PO2, PO6, PSO1						
CO2	Gain hands-on experience of developing metrics and dashboards for HR Teams of Organizations	PO1, PO2, PO6, PO8, PSO1, PSO2, PSO3						
CO3	Understand applications of Machine Learning Concepts in HR Domain	PO1, PO6, PO8, PSO1, PSO2						
CO4	Frame HR policies based on data-driven decisions	PO1, PO2, PO7, PO8, PSO1, PSO2, PSO3						

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Course	Course Title	Domain Knowledge	Problem Solution	Generation Skills	Ethics and Governance	50d Environment and Sustainability	D Life-long Learning	Creativity and Innovation	80d 80d Employability	Create capabilities of converting theoretical knowledge and data into practical applications with help of analytical tools and techniques.	Keep abreast of trans-disciplinary trends which can be brought to bear in creating strategic and tactical benefits in a VUCA world.	Develop competencies to be socially responsible business professionals.
Code			1.02	1.00	101		100	10/	100	1501	1201	03
BAN11018	HR Analytics	3	2	-	-	-	2	1	2	3	2	1

1= weakly mapped

2= moderately mapped 3=strongly mapped

Name: Enrolment No:		DAMAS NIVERSITY RIS EXCELLENCE	
SCHOOL O END SEI	AMAS UNIVERSITY F BUSINESS & ECONOMI MESTER EXAMINATION BAN11018 – HR Analytics	ICS	
Program: BBA (Business Analytics) Time: 03 Hrs.	S	Gemester: VI Max. Marks: 50	
Instructions: Attempt All Questions from (Each Car examination. You must submit your	codes and outputs.	pen book open lapto	р
 Case Study: Refer to the dataset 'I demographic and service related in working in an organization imployees.csv (a) Import the file in R-Studio (b) Comment on the data struct (c) What is the average length organization? Please do a organization? 	nformation of all employees cture of service of employees in th deep-dive by Gender, nd Business Unit on of absenteeism in the deep-dive by Gender,	Applying	CO1, CO2, CO3, CO4
 Case Study: Refer to the HR_JS d joining status of employees after t join an organization. It has been n out at the last moment and do not in loss to the organization on mult build a model for predicting the predicting the predicting the organization. HR_JS.csv (a) Import the file in R-Studio 	ataset- it contains information hey have been made an offer to oted that many individuals dro join the organization-this resu iple fronts. The objective is to robability of joining status of ion has rolled out an offer.	to op ilts	CO1, CO2, CO3, CO4
 (b) Comment on the data struct (c) Fit a Logistic Regression M of a joining status of a new variable=Status_Joined) w 	Model to predict the probabilit		

set of features	
(d) Report the intercept term, coefficients and the goodness of	
fit measures	

BAN11016	MARKETING ANALYTICS		Т	Р	C	
Version 1.0	ontact Hours - 30 1 0 2					
Pre-requisites/Exposure	Basic Business Analysis Skills, Marketing Theory					
	Fundamentals					
Co-requisites						
Academic Year	2020-21					

Course Objectives

- 1. To understand the basic concepts of Marketing Analytics
- 2. To get acquainted with the tools and techniques used to perform Marketing Analytics
- 3. To gain an understanding of Customer Analytics and Digital Marketing Analytics
- 4. To measure the effectiveness of marketing analytics initiatives of an organization

Course Outcomes:

On completion of this course, the students will be able to:

- CO1. Discuss the fundamental concepts of Marketing Analytics.
- CO2. Develop an understanding of Customer Analytics.
- CO3. Illustrate the importance of Digital Marketing Analytics.
- CO4. Measure effectiveness of such initiatives.

Course Description:

The Marketing Analytics Course will enable students to understand customer behavior, build marketing strategies and identify in-demand metrics to effectively measure and optimize ROI. The course will help students to frame transformational marketing strategies and best practices in organizations.

Course Structure:

Unit I: Introduction to Marketing Analytics

8 L

Why Marketing Analytics, Customer Funnel & Important Marketing Metrics, Getting started with Marketing Data, Marketing Data Collection & Data Discipline, Exploratory Data Analysis, Data Visualization, Data Storytelling

Unit II: Customer Analytics- Segmentation & Targeting 10 L

Segmentation Process, Clustering, Conjoint Analysis, Personalized Targeting, Predicting Potential Customers, Demand Forecasting, Predicting Customers for Upsell/Cross-sell, Predicting Churn, Predicting Customer Lifetime Value

Unit III: Digital Marketing Analytics 6 L

Digital Marketing Channel Mix, Social Media Analytics, SEO

Unit IV: Measuring Market Effectiveness 6 L

Testing Marketing Campaigns, Optimizing ROI, Interpreting Dashboards, Assessing Organizational Readiness for Marketing Analytics, Hiring & Building a Marketing Analytics Team, Overcoming Organizational Impediments

Text Book(s):-

- 1. Marketing Analytics: Data Driven Techniques with MS Excel, Wayne L. Winston
- 2. Marketing Analytics: Strategic Models and Metrics, Stephan Sorger

Project:

The class will be divided into Groups consisting of 5 members each. Each group will be given a topic/dataset which will analyze one real life scenario. They will have to analyze the case studies based on the concepts taught during the sessions. Each group will then present its findings/observations in class.

Modes of Evaluation: Quiz/Assignment/presentation/Written Examination Examination Scheme:

Components	Mid Term	Class Assessment	End Term
Weightage (%)	20	30	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs						
	Course Outcomes (COs)	Mapped Program Outcomes				
C01	Discuss the fundamental concepts of Marketing Analytics	PO1, PO2, PO6, PSO1				

CO2	Develop an understanding of Customer Analytics	PO1, PO2, PO6, PO8, PSO1, PSO2, PSO3
CO3	Illustrate the importance of Digital Marketing Analytics	PO1, PO6, PO8, PSO1, PSO2
CO4	Measure effectiveness of such initiatives	PO1, PO2, PO7, PO8, PSO1, PSO2, PSO3

Course Code	Course Title	Domain Knowledge	Problem Solution	Example 2 Content of C	Ethics and Governance	Environment and Sustainability	0d Life-long Learning	Creativity and Innovation	80 Employability	 Create capabilities of converting theoretical knowledge and data into practical applications with help of analytical tools and techniques. 	 Keep abreast of trans-disciplinary trends which can be brought to bear in creating strategic and tactical benefits in a VUCA world. 	ය යි Develop competencies to be socially responsible business professionals.
BAN11016	Marketing analytics	3	2	-	-	_	2	1	2	3	2	1

1= weakly mapped 2= moderately mapped

3=strongly mapped

Nan Enr	ne: rolment No:	ADAMAS UNIVERSITY PUREUE EXCELLENCE	
	ADAMAS UNIVE SCHOOL OF BUSINESS & END SEMESTER EXA Course: BAN11016 – Mar	& ECONOMICS MINATION	
	ogram: BBA (Business Analytics) ne: 03 Hrs.	Semester: VI Max. Marks: 50	
Atte	tructions: empt All Questions from (Each Carrying 25 Marks) mination. You must submit your codes and outp		ор
1.	Case Study: Refer to the dataset 'Sales_by_Territo objective is to do demand planning for each of the consumer durable company by fitting a linear regr Sales_by_Territory.c sv (a) Import the file in R-Studio (b) Comment on the data structure (c) Fit a Linear Regression Model to predict th Revenue (target variable) of dealers which its given set of features (d) Report the intercept term, coefficients and fit measures	the Sales is dependent on	CO1, CO2, CO3, CO4
2	Case Study: Refer to the Bank_Mktg dataset- it co information on various products which are sold to The objective is to build a model for predicting the customer subscribing a new product (Fixed Depos prior purchase behavior and other demographic fe Bank_Mktg.csv (a) Import the file in R-Studio (b) Comment on the data structure (c) Fit a Logistic Regression Model to predict of a customer subscribing to a Fixed Depo variable=FD_Subscription) which is deper set of features	bank customers. e probability of a sit) based on atures Applying the probability sit (target	CO1, CO2, CO3, CO4

fit measures	

MGT11008	BUSINESS STRATEGY & POLICY	L	Т	Р	С
Version 1.1	Contact Hours - 60	3	1	0	4
Pre-requisites/Exposure	Basic knowledge on Functional areas of Mana	gen	nent		
Co-requisites	Concepts of Management Functions				
Academic Year	2020-2021				

Course Objectives:

- 1. To explore concepts of Business strategy, Policy, and strategic management process.
- 2. The course will help to learn to frame Organisation's vision, mission, examine principles, techniques,
- 3. Students will be introducing models of organisational and environmental analysis, discuss the theory and practice of strategy formulation and implementation.
- 4. The course would enable the students to understand the principles of strategy formulation, implementation and control in organizations.

Course Outcomes

On completion of this course, the students will be able to:

At the end of the course, the student will be able to learn and practice:

Course Outcomes for Business Strategy & Policy (MBA 33106)

CO-1 Understand the basic concepts and principles of strategic Business analysis the internal and external environment of business.

CO-2 Develop and prepare organizational strategies that will be effective for the current business environment.

CO-3 Devise strategic approaches to managing a business successfully in a global context.

CO-4 Basic understanding of the nature and dynamics of the strategy formulation and implementation processes as they occur in complex organizations.

CO-5 Develop students to think critically and strategically. Understand the nature of services, and distinguish between products and services.

Unit 1: Business Strategy: Introduction, Concept of Business Strategy, Need for Business Strategy, Essentials of Effective Strategy, Effects of Inadequate Strategies, Functions of Business Strategies 8L Unit 2: Business Policy: Introduction, Definition of Business Policy, Factors influencing Business Policy, Business Policy vs. Strategy, Policy decisions and their impact on Business Strategies 8L

Unit 3: Strategic Management: Introduction, Strategic Management – Definition, Meaning and Role, Objectives of Strategic Management, Benefits of Strategic Management,Importance of Strategic Management, Causes for failure of Strategic Management 10L

Unit 4: Strategic Management Process: Introduction, Strategic Management Process, Strategic Vision and the role of a Strategist, Criteria for Effective strategy, Role of Strategic Management in Policy Making 8L

Unit 5: Strategic Analysis: Introduction, Strategic Analysis – definition, Need for Strategic Analysis & Environmental Scanning, Understanding environment of business for strategic analysis, Strategic thinkers & their contributions, Role of Strategic Analysis in Policy making 8L

Unit 6: Strategy Formulation: Introduction, Types of Strategies, Steps in Strategy Formulation, Core Competencies and their Importance in Strategy Formulation, 8L

Unit 7: Strategic Planning and Implementation: Introduction, Strategic Planning Process, Types of Strategies, Stability, Expansion or Growth, Mergers and Acquisitions, Activating Strategy, Issues in Strategy Implementation, Integrating the Functional Plan and Policies, 6L

Unit 8: Strategic Leadership: Introduction, Leadership Functions, Leadership Traits, Leadership Styles, Strategic Leadership and Competitive Advantage 4L

TH-1. Bartlett, C. A., Ghoshal, S., & Beamish, P. W. (2009). Transnational management:Text, cases & readings in cross-border management (6th ed.). London: McGraw-HillTH-2. Grant, R. M. (2010). Cases to accompany contemporary strategy analysis (7th ed.).London: John Wiley.

TH-3. Porter, M. E. (2004). Competitive strategy. (2004). New York: Simon & Schuster

TH-4. Prahalad, C. K., & Krishnan, M. S. (2008). The New Age of innovation: Driving co

created value through global networks. New York: McGraw Hill.

Project:

The class will be divided into groups of five members each. Each group has to select an Organization. The project emphasis on Strategic analysis on the selected organizations. The group has to study SWOT Analysis , the different strategic implementation in the past and present. For the project student can use the sources like the company websites, interact with the company manager, interactions of the customers of the company concern and own experience with the company if any. The Project will be briefed in the 3rd session and required to complete by 30th session. After 15th session each group has to brief the progress of their project. After one week of mid semester examination all groups are required to submit the final report. Each group will be assigned a date for presentation. Ten marks for presentation and 10 marks for presentation.

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination

Examination Scheme:

Components	Mid Term	Attendance	Class Assessment	End Term
Weightage (%)	20	00	30	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

	Mapping between COs and Pos	
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Understand the basic concepts and principles of Business policy and strategic Business analysis the internal and external environment of business.	PO1, PO 2
CO2	Develop and prepare organizational strategies that will be effective for the current business environment.	PO1,PO2, PO3, PO 6, <mark>PSO2</mark>
CO3	Devise strategic approaches to managing a business successfully in a global context.	PO2, PO4, PO 6, PSO1
CO4	Basic understanding of the nature and dynamics of the strategy formulation and implementation processes as they occur in complex organizations.	PO5, PO6, PO7 PSO3

CO5	Develop students to think critically and strategically. Understand the nature of services, and distinguish between products and services.	PO5, PO6, PSO2,POS3

		Management Knowledge	Problem Solution	Leadership and Organization Skills	Ethics	Environment and Sustainability	Life-long Learning:	Creativity and Innovation	Prepare basic knowledge, skills, tools and techniques to enable them to take up	Development of entrepreneurial skillsandspirit.	Develop competencies to be socially responsible business professionals
Course	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1	PSO 2	PSO3
MGT11008	Business Strategy & Policy	3	2	2	1	1	2	3	3	2	-

1= weakly mapped

2= moderately mapped

3=strongly mapped

Name: **Enrolment No:** Course: MGT11008 – Business Strategy & Policy **Program: BBA** Semester: VI Max. Marks: 50 **SECTION A (Answer All Questions)** 1. What is Core Competencies? Give examples of two Remembering **CO1** companies and their core competencies. How policy decision impacts on Business Strategy? 2 Understanding **CO1** What is stability strategy? Which company do you think now 3 Remembering CO2 adopting stability strategy? What are five forces of Michael Potters approach? 4 Remembering **CO1** 5 Why are diversification strategy adopted? Remembering **CO1 SECTION B** What do corporate strategies deal with? 1. Understanding CO2 2 What a vision should be and what it should not be? Remembering CO3, **CO2** 3. Understanding CO 3 4. Analysis the strategy adopted by CCD. Analysing **CO3 SECTION C** (Attempt any **Two Questions**) **CO4** The Corporate journey of Mahindra Group started in 1945 Applying 1.



Time: 03 Hrs.

Instructions:

Attempt All Questions from Section A (Each Carrying 2 Marks); any Four Questions from Section B (Each Carrying 5 Marks). Any Two Questions from Section C (Each Carrying 10 Marks).

when one of the two brothers K.C.Mahindra and J.C.Mahindara was on a visit to the US both brothers were

professionals working with TATA Steel and Martin Burns

respectively. K.C.Mahindra visualized manufacturing jeeps for the rugged Indian roads. A franchisee for assembling willys jeep was set up as Mahindra and Mohammad in association with Ghulam Mohammad, who later become a finance minister in post-independence Pakistan. In 1848, Mahindra & Mahindra came into being Keshub Mahindra is the chairman of the Group and Anand G. Mahindra is the managing director. The first diversification came in 1953 when Otis Elevator (India) was formed in 1956, the shares of the Mahindra Group were listed on the Bombay Stock exchange. The decade of 1953 -63 saw diversification mainly through collaborations and joint ventures with foreign companies. The group entered Varnishes and resins, machine tools, sintered products, alloy and special steel, and finally tractors in 1963. Tractors remain a core business at the Mahindra Group and it is a market leader in the industry and a global player now. In 1965 came a major thrust into the automobile industry with the commencement of production of light commercial vehicle. The first international foray in the form of exports of utility vehicles and spare parts started in 1969, making in the first attempt at geographical diversification from the group. The next two decades till 1985 were interspersed with strategic actions aimed at expansion in its mainline business of tractors. A major diversification occurred in 1986 with the Group entering the information technology sector. The milestone of India's second liberalization in 1991 coincided with the Mahindra Group's diversifying into financial services. A reorganization exercise was carried out in 1994 to create six strategic business units: automotive, farm equipment, infrastructure trade and financial services, information technology and systech. The next five years the sawn of 2000

	strategy?			
	b) How far Mahindra Group is effective in integration and			
	diversification strategy?			
2.	Design a strategy for a premium restaurant looking at COVID- 19 situation in Kolkata.	Applying	CO4	
3.	Design strategy for Virus Protection Mass looking at more competition in the Indian market.	Creating	CO5	

MKT11007	E-commerce	L	Т	Р	C	
Version 1.0	Contact Hours - 30	2	0	0	2	
Pre-requisites/Exposure	es/Exposure Basic understanding of Internet technology, digital					
	transactions and marketing					
Co-requisites						

Course Objectives:

- 1. Learn evolution of E-commerce- a brief history
- 2. Understanding e-commerce business models and technology background.
- 3. Building an E-commerce site, security and payment systems.
- 4. Online consumer behaviour, e-commerce marketing and business strategies.
- 5. E-tailing business models including service sectors.

Course Outcomes:

On completion of this course, the students will be able to:

- CO1. Know about evolution of E-commerce history.
- CO2. Understand e-commerce business models and technology background.
- CO3. Build e-commerce site with knowledge of security and payment systems.
- CO4. Recognise online consumer behaviour, e-commerce marketing and strategies.
- CO5. Familiarise with the e-tailing business models including service sectors.

Catalogue Description

With the inception of Web, organisations and individuals are more and more making use of it to create new business ventures. The WWW is not only a definitive source of information, but an astounding business opportunity as well. People thoughout the world are venturing out onto the Web for buying and selling goods and services. The Web has indeed proved to be a boon to business, drawing its power from the flow of easy and instantaneous transactions worldwide. Online business is thriving and more and more corporate companies are joining the fray of electronic transactions. E-commerce has established a significant synergy between the use of digital information and online business. E-commerce has increased the speed and ease with which business can be transacted today, resulting in intense competition between enterprises. Companies are at the crossroads, with just two vistas ahead of them- either go online or go out of business model to adopt, what strategies to adopt to make business successful? The solution is to gain a deeper insight into the e-commerce business.

Module 1:

5 Lecture Hours

E-commerce: The revolution is just beginning, Ecommerce: A Brief History, Understanding E-commerce: organizing Themes

Module II

10 Lecture Hours

E-commerce Business Models, Major Business to Consumer (B2C) business models, Major Business to Business (B2B) business models, Business models in emerging E-commerce areas, How the Internet and the web change business: strategy, structure and process, The Internet: Technology Background, The Internet Today, Internet II- The Future Infrastructure, The World Wide Web, The Internet and the Web : Features

Module III

5 Lecture Hours

Building an E-commerce Web Site: A systematic Approach, The e-commerce security environment, Security threats in the e-commerce environment, Technology solution, Management policies, Business procedures, and public laws, Payment system, E-commerce payment system, Electronic billing presentment and payment.

Module IV

10 Lecture Hours

Consumer online: The Internet Audience and Consumer Behaviour, Basic Marketing Concepts, Internet Marketing Technologies, B2C and B2B E-commerce marketing and business strategies, The Retail sector, Analyzing the viability of online firms, E-commerce in action: E-tailing Business Models, Common Themes in online retailing, The service sector: offline and online, Online financial services, Online Travel Services, Online career services.

Reference Books:

- 1. Kenneth C. Laudon, E-Commerce : Business, Technology, Society, 4th Edition, Pearson
- 2. S. J. Joseph, E-Commerce: an Indian perspective, PHI

Modes of Examination: Assignment/Quiz/Project/Presentation/Written Exam

Examination Scheme:

Components	Internal	Internal Attendance Mid Term		End Term	
Weightage (%)	30	00	20	50	

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs						
	Course Outcomes (COs)	Mapped Program Outcomes				
CO1	Know about evolution of E-commerce history.	PO1, PO2				

CO2	Understand e-commerce business models and technology background.	PO1,PO2, PO3, PSO1
CO3	Build e-commerce site with knowledge of security and payment systems.	PO1, PO2, PO3, PO4, PO5, PO4,
CO4	Recognise online consumer behaviour, e-commerce marketing and strategies.	PO1, PO5, PO7, PSO2
CO5	Familiarise with the e-tailing business models including service sectors.	PO11, PO12

		A Brief History, Understanding E-	Ś	Major Business to Consumer (B2C) business	Major Business to Business (B2B) business	Internet and the web change business:	The Internet: Technology Background	The Future Infrastructure, The World Wide	Building an E-commerce Web Site: A	The e-commerce security environment	E-commerce payment system, Electronic billing presentment and payment.	The Internet Audience and Consumer Behaviour	Internet Marketing Technologies	E-commerce marketing and business strategies	The service sector: offline and online, Online financial services, Online Travel Services,
Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
MKT11007	E-commerce	3	2	2	1	2	1	-	3	2	-	2	2	2	3

1=weakly mapped 2= moderately mapped 3=strongly mapped

Model Question Paper



Course: MKT11007 E-commerce

Program: BBA Semester: VI

Time: 3 Hrs.

Max. Marks: 40

Instructions:

Attempt any five questions from **Section A** (each carrying 2 marks); **Three Questions** from **Section B** (each carrying 10 marks). **Section C** is Compulsory (carrying 10 marks).

	Section A (Att	empt any Three)	
1.	What is ubiquity of e-commerce?	2	C01
2.	What is affiliate revenue model?	2	CO2
3.	What are B2C and B2B? Give examples.	2	CO2
4.	What is first mover advantage in e- commerce business?	2	CO3
5	What do you understand by successful e-commerce value proposition?	2	CO4
	SECTION B		
7.	Explain market opportunity and competitive environment of e- commerce business model.	10	CO2
8.	Explain a typical e- commerce transaction and its security threats.	10	CO3
9.	How do you plan to build your e-commerce presence? Explain	10	CO4

	SECTION C is		
10.	Compulsory Case Study on online consumer behaviour and marketing strategy	10	CO5